Holden

OWNER'S HANDBOOK

TF SERIES

Owner's Name .....

Address .....

Town .....

State ..... Postcode .....

Model Name .....

Reg. No. ..... Eng. No. .....

Odometer Reading .....

Date of Purchase .....

(17 character I.S.O.V.I.N.) Vehicle Identification Number .....

Vehicle Identification Certificate

Selling
Dealer's
Stamp & Signature .....

Change of address/ownership

It may be necessary for Isuzu-General Motors Australia Limited A.C.N. 006 962 572 (hereinafter I-GM) to contact the owners of I-GM vehicles from time to time. To enable this contact, records are maintained of owner's names and addresses.

So we can keep these records up to date, please complete the form on pages 8-34 or 8-36 and forward to the address shown on the back of this form if:

a) you change your address

b) you have purchased this vehicle from a previous owner.

Part No. 92074253
July 1994 ('94 model print 2)

We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction.

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This handbook applies to *all* 1994 TF series Rodeos and therefore you may find reference to some equipment not installed in your vehicle.

All information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing. Isuzu-General Motors A.L. reserves the right to make changes at any time without notice and without incurring any obligation.

CONTENTS

The first page of each chapter contains a "chapter index"

Chapter 1 .... **INSTRUMENT PANEL** ..... page 1-0

The first page of this chapter illustrates the instrument panel and identifies the gauges, warning lights and controls. Page reference numbers are listed next to each item.

Chapter 2 .... **KNOW YOUR VEHICLE** ..... page 2-0

This section covers the other features of your vehicle, not appearing on the instrument panel. Features covered include locks, seat adjustment, seat belts, mirrors, windows, antenna and the interior light.

Chapter 3 .... **STARTING, DRIVING & TOWING** ..... page 3-0

Please read chapters 1 and 2 to familiarise yourself with your vehicle before proceeding to this section. This explains how to start your engine and the use of automatic and manual transmissions. There are also some precautions and fuel consumption notes as well as information when loading your vehicle or towing a trailer.

Chapter 4 .... **ACCIDENTS & EMERGENCIES** ..... page 4-0

The first two pages of this chapter show what to do at the scene of an accident, including giving medical assistance. Following, are some emergency procedures, including wheel changing, starting when the battery is flat, engine overheating, draining water separator (diesel) and bleeding the fuel system (diesel).

CONTENTS

Chapter 5.... **WARRANTY** ..... page 5-0

This sets out the terms of your warranty, explains what to do if you need Customer Assistance and lists the Holden Dealers across Australia.

Chapter 6.... **WEEKLY MAINTENANCE** ..... page 6-0

As well as taking your vehicle in for a service, there are a few simple checks that the owner must make. These are clearly shown and illustrated. They include checking the oil, water, automatic transmission fluid, brake and clutch fluid levels. It also shows how to top up the washer fluid and check your tyres.

The end of the chapter shows how to replace your vehicle's light bulbs should the need arise.

Also included are instructions about cleaning your vehicle.

Chapter 7.... **SPECIFICATIONS & EMISSIONS** ..... page 7-0

This lists specifications, capacities and general replacement parts, including oil, coolant, and fluids. Also included is information relating to the emission control features fitted to your vehicle.

Chapter 8.... **SERVICE/MAINTENANCE SCHEDULE** ..... page 8-0

This shows when your vehicle requires servicing and what is done at each service. Also included are the coupons that are used when you take your vehicle to a Holden Dealer to be serviced.

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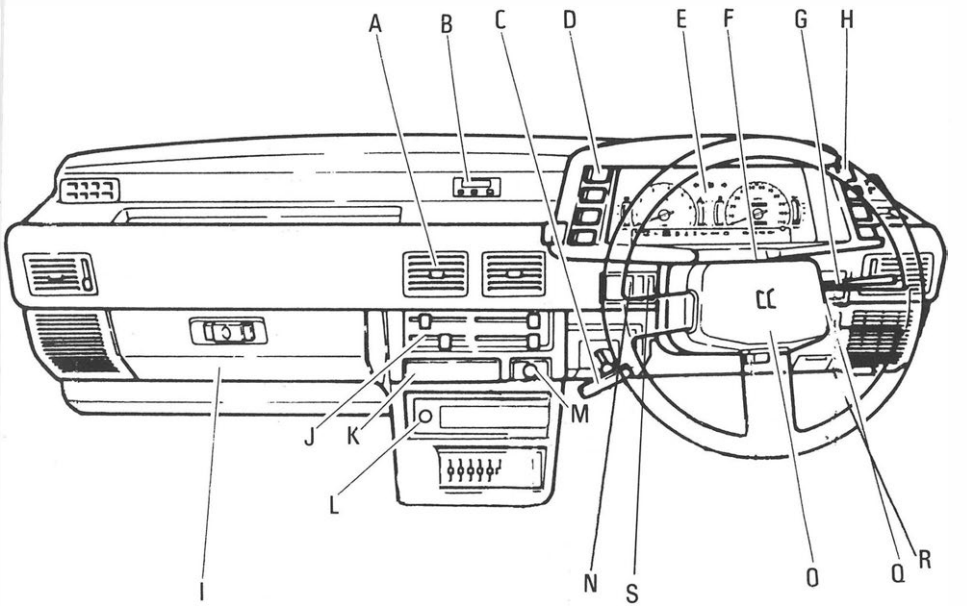
REFUELLING ..... inside rear cover



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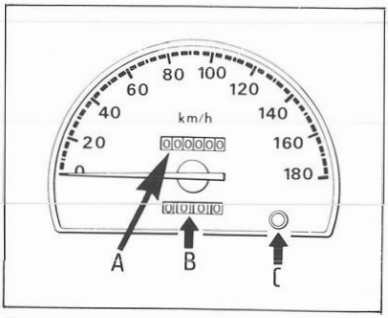
Speedometer

The speedometer gauge indicates vehicle speed in kilometres per hour.

The odometer (A) records kilometres travelled since the vehicle was built.

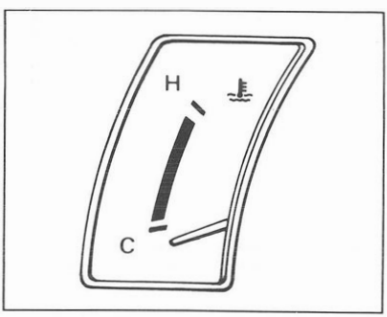
The tripmeter (B) records kilometres travelled on a particular trip. Push the tripmeter knob (C) to reset the reading to zero.



Engine coolant gauge

The temperature gauge indicates the engine coolant temperature, when the ignition is switched to ON.

If the needle moves to the extreme top of the gauge, an overheat condition is indicated, refer page 4-7.



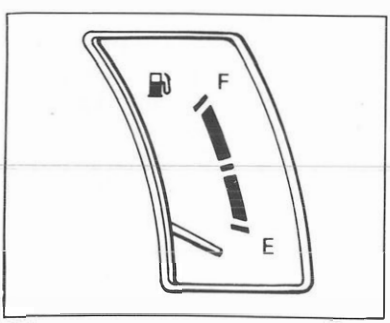
Fuel gauge

The fuel gauge indicates the level of fuel within the fuel tank. 'F' represents full, 'E' represents empty.

If your Rodeo is fitted with a tachometer the gauge will show fuel tank contents at all times, regardless of the ignition key position.

If your Rodeo is not fitted with a tachometer the needle in the gauge will fall to empty when the ignition is turned off. Fuel tank contents will again be displayed when the ignition is turned to ON.

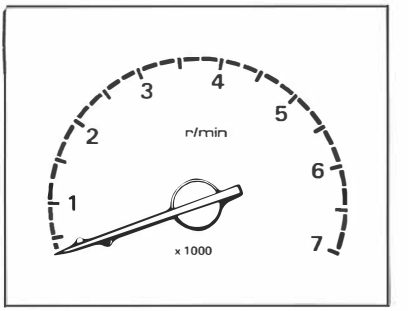
Refer to information on the inside of the rear cover of this Handbook when refuelling.



Tachometer (if fitted)

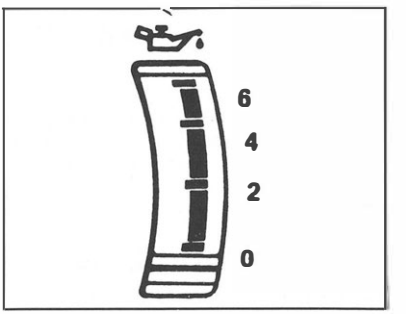
The tachometer records engine speed in revolutions per minute (r.p.m.).

Continued or sustained operation in the RED zone could cause serious engine damage.



Oil pressure gauge (if fitted)

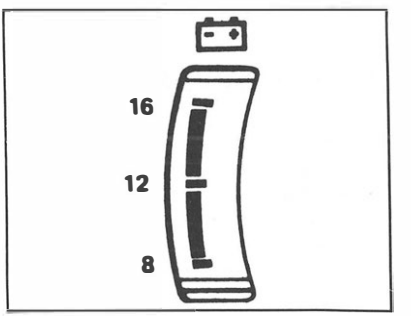
The oil pressure gauge indicates the pressure of oil in the engine. If the gauge needle does not deflect at all or it gives an erratic indication, check the engine oil level. If the oil level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with low oil pressure.



Voltmeter (if fitted)

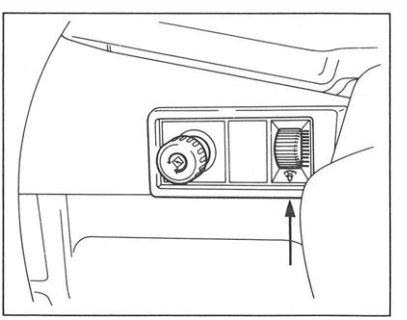
The voltmeter indicates whether the battery is being charged or discharged. Check voltmeter reading with engine running. The needle should be between 11 and 16 volts range.

If the needle does not indicate the specified range when the engine is running, have your nearest Holden Dealer check and correct the trouble as soon as possible.

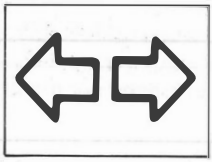


Gauges - light control

To adjust the brightness of the instrument panel lighting, turn the dial illustrated, located to the left of the steering column.



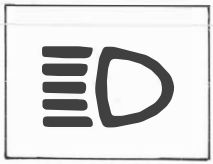
Turn signal indicator



The appropriate green arrow will continuously flash while the lever on the right side of the steering column is moved (refer page 1-6) and the ignition key is turned to the "ON" position.

NOTE: Both arrows will flash when the Hazard Warning Flashers are switched on, refer page 1-8.

High beam indicator



This symbol is displayed when the headlight high beams are in use.

Oil pressure warning

This symbol is displayed when the ignition key is turned to the "ON" position - before the engine is started. If the symbol comes on while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level. If the level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with this symbol illuminated.

Low fuel indicator

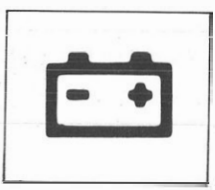
This symbol is displayed when the fuel tank is nearly empty (down to approx. 8 litres), provided the ignition key is turned to the "ON" position.

Brake warning

If this symbol is displayed when you are driving and the park brake is fully released it indicates that there may be a fault with the braking system. You should immediately stop the vehicle (as carefully as possible) and check the fluid level of the brake master cylinder, as shown on page 6-6. Do not proceed until the reason for the warning has been located and rectified.

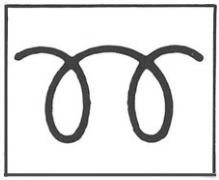
In addition, diesel equipped vehicles are fitted with a low vacuum warning which may illuminate when the brake pedal is 'pumped' with the engine running at low speed. This is due to insufficent vacuum being generated and does not indicate a problem. However, if the light is illuminated after 2 or 3 seconds at idle, the vacuum line may be defective and you should see your Holden Dealer.

Generator warning



This symbol is displayed when the ignition key is switched to the "ON" position - until the engine is started. If the symbol comes on while driving a state of "low charge" is indicated. This should immediately be seen to.

Glow plug indicator (diesel only)



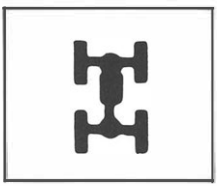
Your diesel engine has a special starting system. Turning the ignition key to "ON" starts the system and turns on the indicator light.

When the glow plugs have heated the engine enough for it to start, the indicator light will go out. This tells you the engine is ready to be started.

Fuel filter indicator (diesel only)

Under certain circumstances water may be taken into the fuel tank, and to prevent water from reaching the vital parts of the fuel system a water seperator is installed. When the level of water trapped within the water separator reaches the specified level, the indicator symbol is illuminated. If the symbol comes on and remains on while the engine is running, it indicates the need for draining the water seperator, refer page 4-11.

4 wheel drive indicator (4WD only)



This symbol is illuminated when the transfer lever is shifted into 4H or 4L position, provided the ignition key is turned to "ON".

Note that this does not necessarily mean that the vehicle is driving in 4 wheel drive, refer page 3-8.

Check engine warning (petrol 4ZE1 engine only)

Your vehicle is fitted with an Electronic Engine Management System.

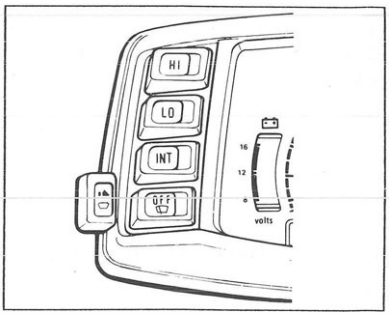
If the check engine light comes on whilst driving (either intermittently or continuously) then service to the Engine Management System is required. Although the vehicle may still be driveable and does not require towing, see your Holden Dealer as soon as possible for an inspection of the System, as continued driving could affect fuel consumption and engine performance.

NOTE: To check that the bulb is working, this warning light will come on for about four second when the ignition key is turned to the "ON" position.

Overdrive off indicator (auto. only)

This symbol is displayed when the ignition key is turned to the "ON" position and overdrive is switched off, refer page 3-6.

Wipers & Washers



NOTE: The wipers and washers are only operational when the ignition key is turned to "ON".

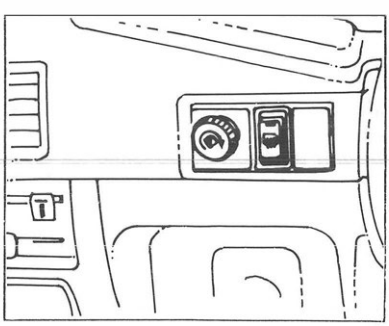
The wiper switch is mounted to the left of the instrument cluster.

Pressing the LO button allows the windshield wipers to operate at low speed. The HI button operates the wipers at high speed. INT (intermittent) is used when driving in conditions such as drizzle or mist. Pressing the OFF button stops the wipers.

Do not operate the wipers if the windshield glass is dry. It may scratch the glass. To obtain a spray of water onto the glass, push the washer button towards the instrument panel. This will automatically turn on the wipers for a short time, if not already operating.

Refer page 6-5 when topping up washer fluid.

Demister (if fitted)

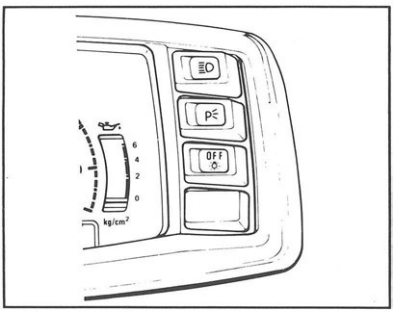


Operational when the ignition is switched to 'ON', the switch for the rear window demister is located on the instrument panel, to the left of the steering column.

Press the switch to turn on the demister. The light in the switch glows when the demister is in use.

Repress the switch to turn off the demister when the rear window is clear.

Light switch



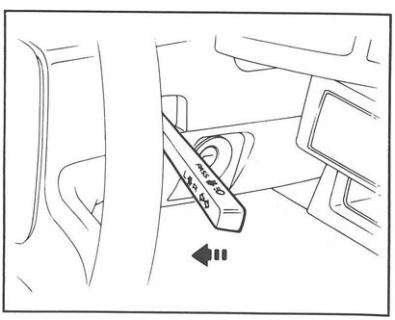
The exterior lights of your vehicle (except for the turn signals) are controlled by the switches on the right side of the instrument cluster.

The middle switch controls the park, tail, rear licence and instrument cluster lights.

The top switch controls all of the above lights as well as the headlights.

The lower switch turns off all the above lights.

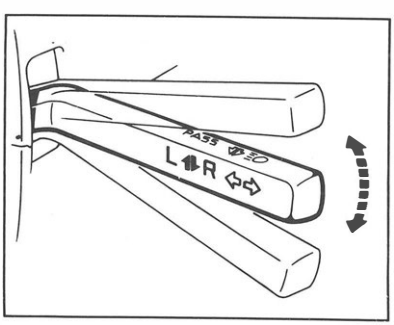
High/low beam



The headlight beam is alternately switched from high to low or from low to high each time the lever is pulled toward the steering wheel. The headlight high beam indicator on the instrument panel will illuminate when the headlights are on high beam.

NOTE: If this lever is operated when the light switch is OFF, the high beams will still operate.

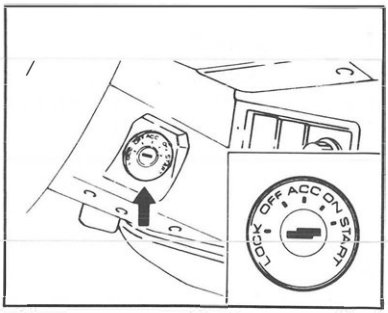
Turn signals



The turn signals are operated by the lever mounted on the right side of the steering wheel column. The lever is pushed up to signal a left turn and down to signal a right turn.

A green arrow on the instrument panel will flash when the lights are in operation.

Ignition switch



LOCK
Normal parking position. Accessories and engine are off. This position locks the ignition and steering when the key is removed. The key can only be removed at this position. To release the steering lock, insert the key into the switch and turn it to "OFF" or other positions. If you have trouble turning the key to unlock the steering, turn the steering slightly to the right or left while twisting the key clockwise.

OFF
The engine and accessories can be turned off without locking the steering.

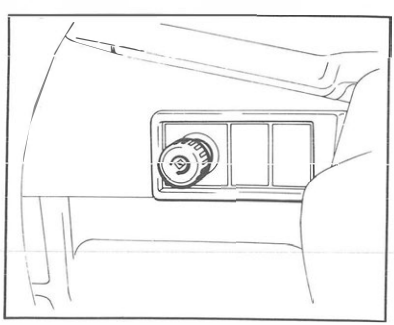
ACC
The engine is off but accessories such as the radio still operate.

ON
This is the position at which the engine is ready to start and all electrical systems are active. Do not leave the switch in the "ON" position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

START
This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

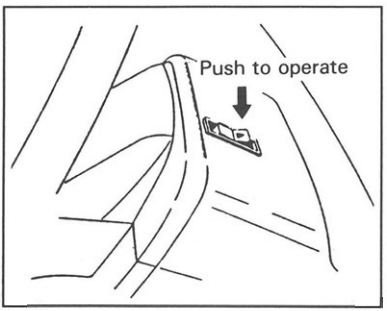
CAUTION: Do not turn the engine off while the vehicle is in motion as this renders ineffective any power assisted equipment (such as brakes or steering) operated by the engine. Never remove the key while the vehicle is in motion as this will lock the steering of the vehicle.

Diesel idling control knob



Turning the knob clockwise after cold engine starting will increase idling speed, thereby facilitating quick normalization of the engine. Remember to return the knob to the home position after the engine has warmed up.

Hazard warning flasher



Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night.

Turn on the hazard warning flasher (regardless of the ignition key position) by pushing the furthest section of the switch, as shown.

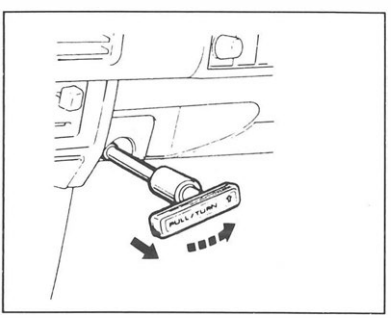
To cancel the flasher, push the closer section of the switch.

USE OF THE HAZARD WARNING SYSTEM WHILE THE VEHICLE IS MOVING IS PROHIBITED BY LAW IN SOME STATES.

Horn

The horn is activated when the pad in the centre of the steering wheel is pressed, regardless of the ignition key position.

Park brake lever



A ratchet type park brake lever is mounted to the left of the steering wheel column. To apply the park brake, pull the lever out. To release, pull out and turn the lever anti-clockwise and then push is back into home position. Never drive with the park brake applied as this may overheat or otherwise damage the park brake mechanism.

Clock (if fitted)

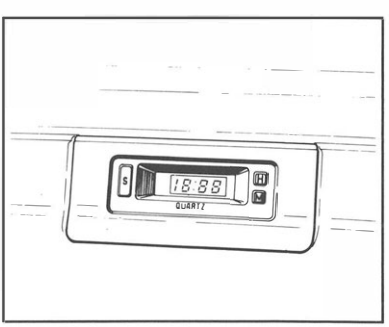
Time is displayed when the ignition key is turned to "ON". The display is adjusted as follows:

"M" Minute display is advanced rapidly while this button is depressed.

"H" Hour display is advanced rapidly while this button is depressed.

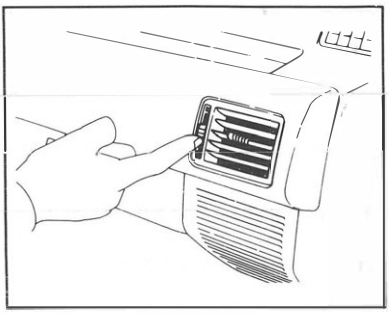
"SET" Display is rounded off to the nearest hour when this button is depressed.

The clock does not display seconds, but starts from zero second when the "SET" button is pushed.



The vehicle features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Fresh air (when selected by the Air Source Lever) is drawn into the vehicle through the grille in front of the windshield. Do not allow this to become clogged with leaves or snow.

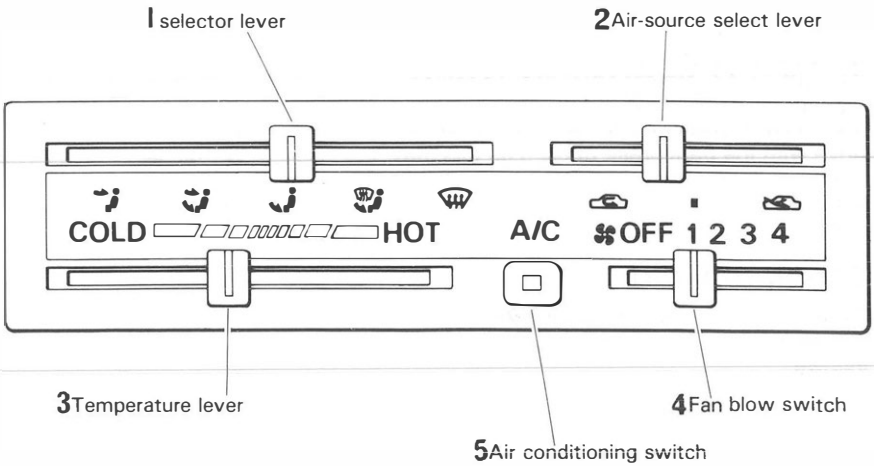
Outlets



The air can be directed by the Select Lever to four different types of outlets: window demister, windscreen demister, floor and face level.

The four face level outlets, located on the instrument panel, have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

The floor, window demister and windscreen demister outlets are fixed, as these direct air to the windows, windscreen or feet in the best possible way.



1. Select lever

FACE. Air is delivered from the four face level outlets.

BI-LEVEL. Cooler air is delivered from the face outlets and warmer air from the feet outlets. This position can be used for most winter driving.

FEET. Air is directed to the feet.

FEET & DEMIST. Air is delivered from the foot level, window demist and windscreen demist outlets.

DEMIST. Air is delivered from the window demist and windscreen demist outlets with a small amount from the floor outlets.

2. Air source lever

Recirculated or outside air intake can be selected with the Air Source Lever. The recirculation position should be used (with the windows closed) when outside air is not wanted, as when driving in dusty conditions.

3. Temperature lever

The temperature lever regulates the temperature of the air entering the passenger compartment in all Select lever positions.

4. Fan blow switch

The fan lever (OFF- 4) provides speed control of the blower fan in all Select lever positions.

5. Air conditioning switch (if fitted)

Air conditioning (if fitted) is turned on when this button is depressed. Repress the button to switch off and achieve lower fuel consumption.

Windscreen demisting

To demist the windscreen, move the Select Lever to "DEMIST", select air flow and air source required. Demisting will be accelerated if higher temperature air is used.

In high humidity conditions however, operate the system for approx. 30 seconds before selecting "demist" position to purge air from the system.

The air conditioner on/off switch is located in the heater control panel. The switch will glow blue when the air conditioner is working. Note that the fan switch must be set to 1 or above for the air conditioning to work.

Hot weather

For a "quick cool down" when first entering the vehicle on a hot day, switch on the air conditioner, select *re-circulate*, move the temperature lever to full cold and turn the fan to a high speed. Also open the windows to allow the hot air to escape. After a minute or two, close the windows (the air conditioning works more effectively with the windows up).

It is recommended that when the interior cools down (approximately 10 to 20 minutes) to select outside air (rather than re-circulate) to achieve and maintain best comfort conditions during extended driving.

The coolest temperature however, is achieved when *re-circulate* is selected. This can be used in slow city traffic or when the vehicle is stationary in very hot weather. Occasionally select *face* or *bi-level* to allow outside air to enter the vehicle.

Cold weather

The air conditioner also removes moisture from the air. By moving the temperature lever away from extreme cold ensures that the air will be reheated after it has been purified.

Therefore, if the side windows or windscreen fog up on a cold day, switch on the air conditioner, turn the fan switch to a high speed, select 'demist' and select a warm setting with the temperature lever. This will circulate warm, dehumidified air throughout the vehicle, defogging the windows.

Fuel consumption

When air conditioning is not needed, remember to turn the air conditioner off, as this will reduce fuel consumption.

Automatic transmission

If your vehicle is stopped for long periods in hot weather with the engine running and the air conditioner operating, select **N** (neutral) or **P** (park).

Important

Once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system and prevent the seals from drying out.

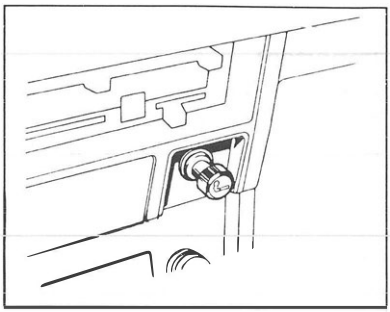
Dust

When following another vehicle on dusty roads, or to prevent exhaust fumes or odours from entry into your vehicle, select the re-circulate position of the air source lever and make sure windows are closed.

When driving on un-sealed roads but where the dust is not airborne, use the fresh air setting of the air source lever (with the windows closed) and the fan preferably on a high speed so that positive air pressure in the vehicle will prevent any dust entry.

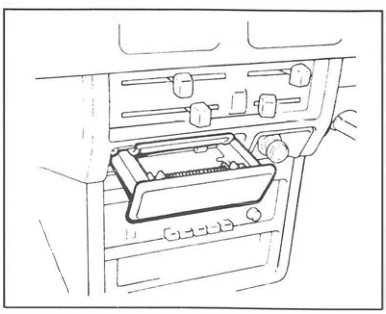
Cigarette lighter

The cigarette lighter is operational with the ignition key in either the "ON" or "ACC" positions. To operate, simply press in the lighter knob. When the element is hot the lighter will automatically pop out, ready for use.



Ash tray

To use, pull out the tray. To clean, remove the tray by pulling it out while depressing the cover flap.



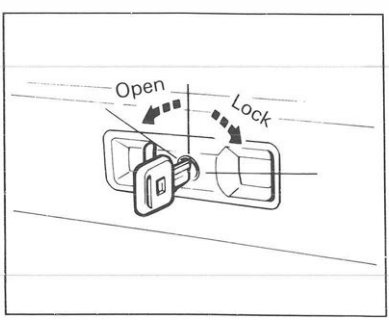
Glovebox

The glovebox is provided on the passenger side of the instrument panel.

To lock, insert the master key and turn it clockwise 90°.

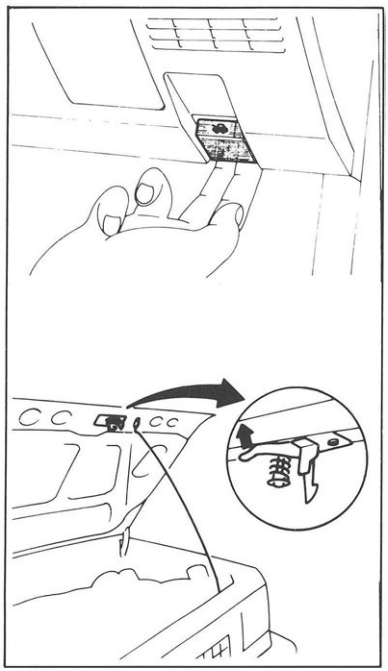
To open, insert the master key and turn it anti-clockwise 45°.

If the glovebox is not locked (simply closed) it can be opened by hand, by squeezing together both sides of the lock knob.



To open the bonnet, pull bonnet lock release located beneath the instrument panel, to the right of the steering column. This allows the bonnet to release but is prevented from opening by the safety catch. To open completely, reach in under the bonnet and move safety catch upwards. Hold in this position, raise bonnet and support by inserting support rod into the provided slot.

For closing, return support rod to its resting position and lower bonnet gradually to be finally dropped under its own weight.



Radio

Refer to the operating instruction supplement in your glovebox for all information relating to the operation of the radio/cassette in your vehicle.

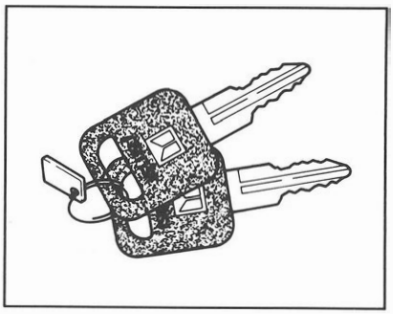
Chapter 2

Other Features

Page

2-1 Keys
2-1 Fuel Filler Tank Door
2-1 Glovebox
2-1 Door Locks
2-2 Seat Adjustment
2-3 Seat Belts
2-5 Mirrors
2-6 Windows
2-6 Interior Light
2-6 Antenna

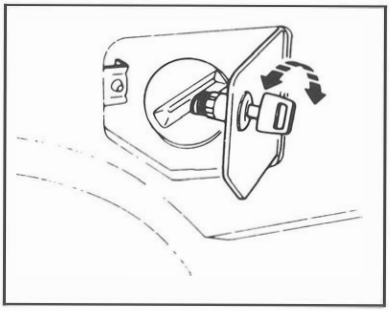
Keys



The code number is stamped on the key. Record the key number and keep the number in a safe place - NOT IN THE VEHICLE.

In the event of the original keys being lost a duplicate can be made by your Holden Dealer, using your key code number.

Fuel tank filler door



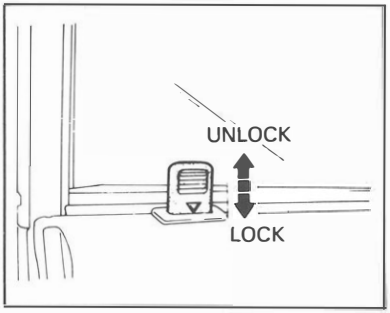
The vehicle is equipped with a lockable fuel filler door (or cap) which can be unlocked or locked with the ignition key.

After refuelling, check to be sure the fuel filler door (or cap) is locked up properly. Refer to information on the inside of the rear cover of this Handbook when refuelling.

Glovebox

Refer page 1-13.

Door locks

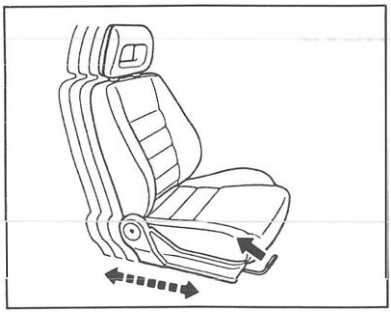


Doors are unlocked when the lock button is up and locked when the lock button is down.

Doors may be locked behind you by depressing the lock button when the door is open then shutting the door while the door handle is pulled outwards.

In addition, front doors may can be locked or unlocked from outside the vehicle with the ignition key. Turn the key towards the front of the vehicle to lock, towards the rear to the vehicle to unlock.

Driver's seat



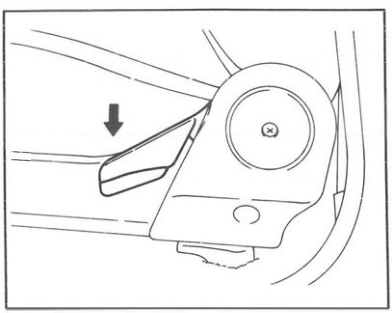
Pull up the lever (located under the front of the seat) and then move the seat forward or backward, as required.

After adjusting the seat position, try to move the seat forward and backward to be sure the seat adjusters have been latched.

Do not adjust the seat while the vehicle is moving.

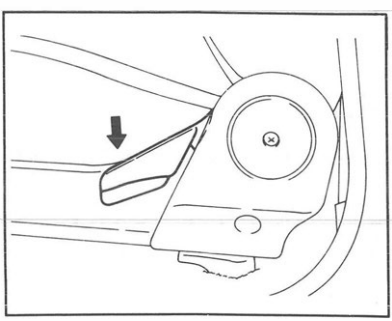
Some models will also have a similar adjustment for the passenger seat.

Back inclination (where fitted)



Inclination of the back of the seat can be adjusted by raising the lever on the door side of the seat

Walk-in system (space cabs)



The passenger side seatback inclines down and the whole seat assembly slide all the forward as the reclining lever is pulled up.

Retractor Belts

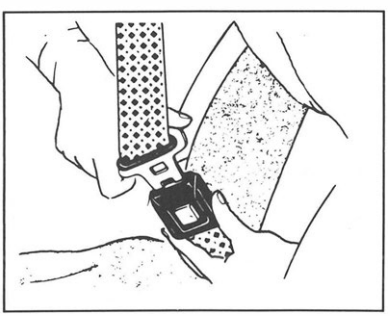
To put on a retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt by running your hand under the belt starting at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and are fitting firmly.

The emergency-locking retractor belt allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

Non-retractor belts



To adjust: Settle yourself comfortable. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar.

To release the belt, press the release button on the buckle.

Maintenance of seat belts

Check seat belts regularly. Replace the belts if they become frayed or damaged. The buckle and retractor mechanism operations should also be checked. Your Holden Dealer will regularly do these things as part of the scheduled maintenance plan, refer page 8-5.

Seat belts must be replaced if they have been in use during a severe impact - even if there is no obvious damage.

Clean belts only with a solution of mild soap and lukewarm water. Never use bleach.

Infant and child restraints

CHILDREN SHOULD BE RESTRAINED AT ALL TIMES WHEN RIDING IN A MOTOR VEHICLE.

In some states it is Law that children must be belted in, whenever they are travelling in a vehicle in which seat belts are installed. CHILDREN ABLE TO SIT UP should be restrained with a regular seat belt or an approved child restraint.

Where children are restrained with the regular belt and it is desired to raise their seating position this is to be done only be means of a support which is retained by the belt. NEVER USE A LOOSE CUSHION AS THIS COULD ALLOW SERIOUS INJURY IN THE CASE OF VEHICLE COLLISION.

Australian Design Rules: WARNINGS

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

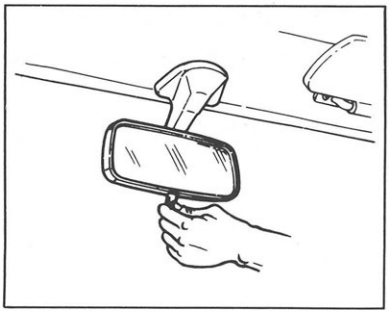
Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat beit assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with or stop the belt from fully retracting.

Inside rearview mirror

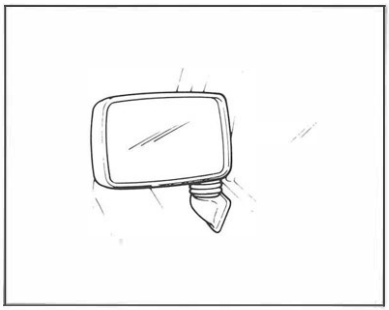


Move the mirror right/left or up/down to gain the required angle.

The anti-glare lever on the lower edge of the mirror enables a reflector to be used during night driving. This reduces glare at night from following vehicles.

During normal daylight operation, the lever should be set forward. To reduce glare at night, move the lever towards you.

Outside rearview mirror(s)



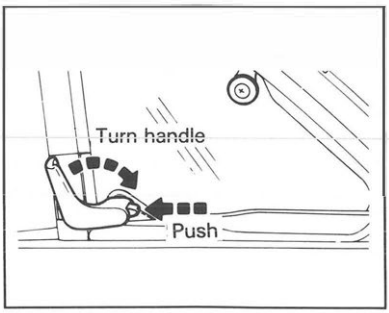
Adjust the outside rearview mirror so you can just see the side of your vehicle in the side of the mirror. This helps you determine your relation to objects seen in the mirror. When selecting the most suitable angle ensure that the driver's head is in the normal position for driving, then adjust the mirror angle to suit.

Window regulator handle

Turn the regulator handle to raise or lower the door windows.

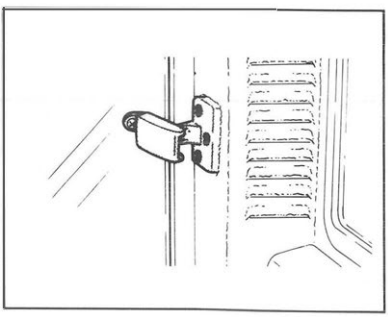
Door vent windows

To open the door vent windows, turn the handle forward while pushing the lock button in and then push the window outwards. To close, pull the window inward and turn the handle until it locks against the window frame.



Quarter windows (space cabs)

The quarter window on each side can be opened and closed by operating the catch handle.

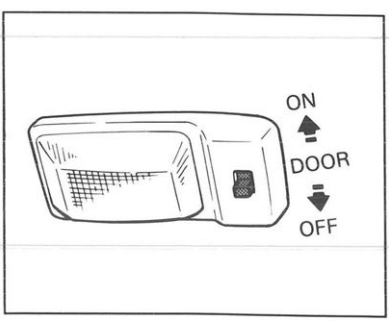


Interior light

DOOR: The light turns on when the door is opened.

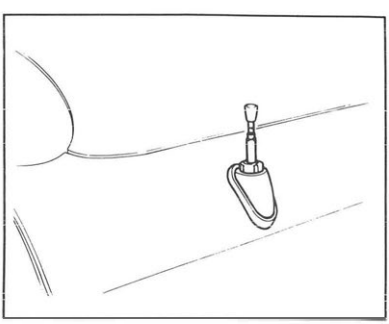
ON: The light turns on regardless of the door position.

OFF: The light remains off.



Antenna

Pull out the antenna to gain sensitivity.



Chapter 3

Starting, Driving & Towing

Page

3-1 Safety
3-2 Petrol Engine Starting
3-3 Diesel Engine Starting
3-4 Driving Precautions
3-5 Manual Transmission
3-6 Automatic Transmission
3-8 4 Wheel Drive (where fitted)
3-10 Towing & Loading
3-12 Running-in
3-12 Reducing Fuel Consumption

EXHAUST GAS WARNING - (Carbon monoxide poisoning)

Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gas entry into the interior of the vehicle we recommend that the exhaust system and body be thoroughly inspected:

- each time the vehicle is serviced
- whenever a change is noticed in the sound of the exhaust system
- whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.

DO NOT SIT IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING AND DON'T LEAVE THE CHILDREN OR PETS IN THE VEHICLE EITHER.

DO NOT RUN THE ENGINE IN AN ENCLOSED AREA SUCH AS THE GARAGE, ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.

BEFORE ENTERING THE VEHICLE

1. Check that windows, mirrors and lights are clean.
2. Check tyre inflation.
3. If you intend to reverse, check that the area behind your vehicle is clear.

BEFORE DRIVING OFF

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

PARKING

1. Apply the park brake.
2. Place manual transmissions in REVERSE and automatic transmissions in PARK.
3. Turn ignition key to LOCK and remove the key.
4. Shut all windows and lock all doors.

CAUTION: Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

1. Apply the park brake firmly and release only after you have started the engine and ready to drive off.

2. MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.

   AUTOMATIC (where fitted): Move the shift lever to P(park) or N(neutral) position. The engine will not start if it is in any other position.

3. Start the engine as outlined below.

   For cold or hot starting the procedure is the same. Simply turn the key to the START position and release when the engine starts. You do NOT have to depress the accelerator pedal prior to or during cranking.

   NOTICE: You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until is has completely warmed up.

Do not keep the starter motor engaged for more than 15 seconds at a time.

Flooded engine

Cranking the engine for a lengthy period without it starting could result in there being too much fuel in the engine.

If this occurs, press the accelerator down to the floor and hold it there while holding the key in the START position. When the engine starts, allow the accelerator pedal to come up slowly.

Glow plug indicator light

Your diesel engine has a special starting system. Small heating elements, called "glow plugs" warm part of the engine for improved starting.

Turning the starter key to the "ON" position starts the system and turns on the indicator light. This indicator light is located on the instrument panel, refer page 1-3.

When the glow plugs have heated the engine enough for it to start, the indicator light will go out - the engine is now ready to be started.

Note that waiting time depends on the engine temperature, the light may stay on for a short ime or go out right away.

If the light fails to come on, see your Holden Dealer.

Starting

Turn the ignition key to the "ON" position and check to see that the glow plug indicator light has turned on. As soon as the glow indicator light has gone off, fully depress the accelerator pedal once and release. Depress the clutch pedal.

Crank the engine by turning the ignition key to the "START" position. Release the key when the engine has started. It will return to the "ON" position.

If necessary to achieve a smooth idle, turn the idling control button clockwise. Remember to turn it fully anti-clockwise when the engine has warmed up (as indicated by the coolant temperature gauge).

NOTE: Do not keep cranking the engine for more than 30 seconds if the engine fails to start. Wait for 30 seconds before trying again.

Turbo Operating Precaution

ENGINE STARTING Do not operate the engine above idle before normal engine oil pressure has been established (such as applying full throttle immediately upon initial startup). This causes the turbocharger to operate at excessive speed before the bearings receive adequate lubrication.
Operation of the turbocharger for a period as short as 5 seconds without sufficient oil can cause bearing failure.

ENGINE STOPPING Before switching off the engine, operate the engine at low idle speed for a minimum of 30 seconds and up to 5 minutes after extended highway operation or heavy engine load operation to allow the turbocharger to slow down. Switching off the engine after a high operating speed could cause the turbocharger to continue to rotate after engine oil pressure has dropped to zero, which can damage the bearings.

Brakes

Power assisted brakes, which are fitted to your vehicle, utilise vacuum from the engine when it is running. Never let the vehicle run down steep grades without the engine running. Never coast with the engine switched off.

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.

Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.

Your seat should be positioned so that you can reach the brake pedal satisfactorily under all braking conditions.

Power steering (where fitted)

Power assisted steering, which is fitted to your vehicle, has been designed to reduce steering effort. It uses hydraulic pressure to lighten steering loads and is designed so that "road feel" is retained. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates unnecessary high operating pressures within the system.

If the power steering is rendered ineffective because the engine has stalled, the drive belt broken or if the pump reservoir is empty of fluid, the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

Water crossing

Whenever driving across a shallow river or deep puddle, extreme care must be exercised or water may enter the engine air intake causing serious engine damage.

To prevent water being forced through the grille into the engine compartment, tie a sheet of canvas or some other suitable material to the underside of the front bumper bar and wrap it over the bumper, grille and top of the bonnet with a tie back to the door mirrors.

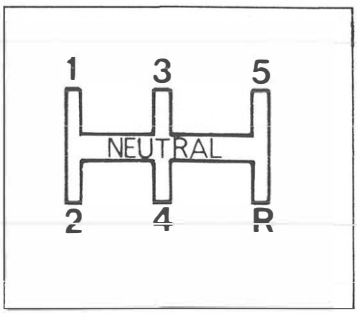
Remember that steady speed and constant traction are necessary for successful water crossing.
When the crossing is completed, remove the canvas.

After deep water crossing, check to ensure that no water has entered and mixed with the oil of the following components:

- engine
- transmission
- front and rear differential

This system has 5 fully synchronised forward gears and a reverse gear. The shift pattern illustrated, is also found on the end of the gear shift lever.

Never attempt to engage "Reverse" gear until the vehicle has completely stopped. A slight pause between depressing the clutch pedal and moving into "Reverse" gear is desirable to allow all the rotating components to stop and avoid gear crashing.



Operating notes

When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping the transmission gears.

Shift the gear with a moderate effort to allow time for the transmission synchronizers to work properly.

Whenever "Reverse" is selected with the ignition on, the back-up lights will operate.

Do not drive with your foot resting on the clutch pedal as damage to the clutch may result.

When stopped on an incline do not hold the vehicle by slipping the clutch. Use the park brake or brake pedal.

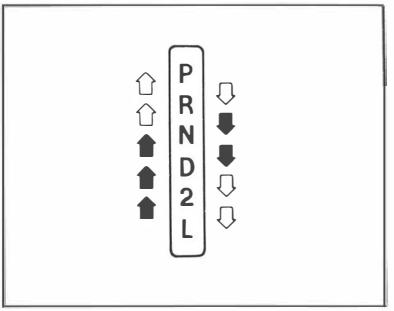
When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the decent.

Do not overspeed the engine when shifting down to the next lowest gear.

Depress the square button on the right side to the T-bar handle when shifting to R or P and when shifting from D to 2 to L, as indicated by the white arrow.

You may shift without depressing the button into any positions indicated by the black arrow.

NOTE: The engine will not start unless the selector is in P(park) or N(neutral).



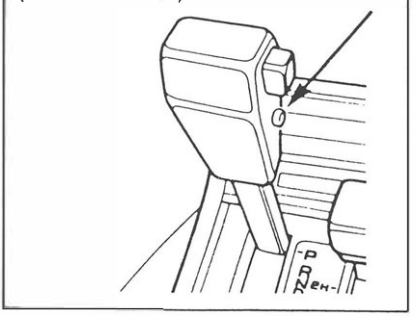
4th gear (overdrive) switch

The small, round button on the right side of the T-bar handle is the 4th gear (overdrive) switch. When the switch is out and "D" (drive) is selected, the transmission will act as a "4 speed", changing from low gear through to 4th gear, as required by road speed and acceleration.

The transmission, however, will not change to 4th gear (even with the button out) until the engine has reached normal operating temperature.

If engine braking is needed when going downhill in "D" drive or the transmission is repeatedly up and downshifting between 3rd and 4th gears when climbing gentle slopes it is suggested the 4th gear be switched off. To reduce fuel consumption and noise, select overdrive again when these road conditions do not apply. The O.D OFF light on the instrument panel is designed to remind you when 4th gear is switched off.

(Overdrive switch)



P (park)	This stops the rear wheels from turning and should be selected (together with the park brake) when leaving the vehicle. Never select P until your vehicle is fully stopped.
R (reverse)	Never select R until your vehicle is fully stopped. Reversing light will operate when R is selected and the ignition is on. After reversing, make sure the vehicle has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the vehicle is still moving.
D (drive)	This is the normal forward driving position and allows the transmission to choose the appropriate gear for the load and driving conditions.
2 (second)	Use this position when going down a moderate gradient where you want to slow down a little without using the brake. Shift back into the "D" position to return to normal driving.
L (low)	Use this position when strong braking effect is needed on a steep gradient. Remember to shift back to "D" range so that the transmission will again upshift into direct drive.

Don't rev the engine with the brakes on in either L, 2, D, or R. This will overheat the transmission.

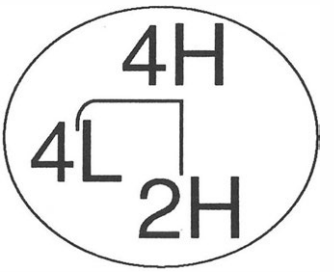
Don't rev the engine to hold the vehicle on a slope. Use the brakes.

Don't ever coast the vehicle in N - this lessens your control and the engine braking power.

Refer page 6-4 when checking automatic transmission fluid level.

4 Wheel drive/2 wheel drive selection is made by both transfer lever position (from inside the vehicle) and front (left and right) wheel hub position. That means that the vehicle will not operate in the 4 wheel range until the wheel hubs have been locked - even if the transfer lever is in the 4L or 4H position.

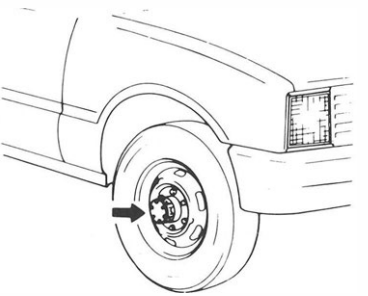
Transfer lever



2H: Rear wheel drive, high range
4H: Four wheel drive, high range
4L: Four wheel drive, low range

When the transfer lever is in 4H or 4L mode the indicator light on the instrument panel will glow.

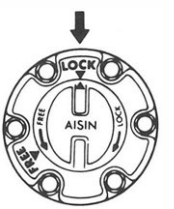
To select 4 wheel drive



1. Stop the vehicle.
2. Shift the transfer lever to 4H or 4L.
3. Set both left and right wheel hubs to the "LOCK" position i.e. the arrow in the middle section of the hub lines up with the 'LOCK' arrow.

If front hubs are already locked, 4WD can be selected at any speed up to 80 km/h.

To select 2 wheel drive



1. Stop the vehicle.
2. Shift the transfer lever to 2H.
3. Set both left and right front wheel hubs to the "FREE" position.

2WD can be selected at any speed but remember to unlock the wheel hubs when convenient.

4ZE1 engine (petrol) and 4JB1T (2.8 litre turbo diesel)

4H to 4L or 4L to 4H shift can be made with vehicle moving. Caution should be used when shifting from 4H to 4L to prevent engine over revving. Depress and release clutch pedal fully when shifting transfer lever.

CAUTION:

★ Never drive the vehicle with the front wheel hubs in the "FREE" position and the transfer lever in 4H or 4L above 5km/h or 100 meters.

★ Never LOCK one hub only - both sides must be either in the locked or freed position.

★ Vehicles should never be operated on hard surfaces or sealed roads for a distance above 1/4 kilometre in 4L or 4H with the hubs in the "LOCK" position.

RUNNING-IN

★ To properly run-in front wheel drive axle components, drive the vehicle for the initial 300 km in 2WD with the wheel hubs in the "LOCK" position.

★ To ensure proper lubrication of the front wheel drive axle components, the vehicle should be driven for a minimum of 20 km every month in 2WD with the wheel hubs in the "LOCK" position.

However, to reduce fuel consumption under normal driving conditions, the wheel hubs should be in the "FREE" position and the transfer lever in the 2H position.

Overloading is a safety hazard and could also shorten the life of your vehicle or its parts.

KERB MASS (kg)

The kerb masses shown below are for the weight of a standard unloaded vehicle with 10 litres of fuel in the fuel tank.

DRIVE	CAB	REAR BODY	PETROL			DIESEL
			STD	DLX	LS	DLX
4 x 2	Single cab	Pick-up		1,350		
		Cab-chassis	1,175	1,175		1,315
	Space cab	Pick-up			1,335	
		Cab-chassis		1,225		
	Crew cab	Pick-up		1,365		
4 x 4	Single cab	Cab-chassis		1,385		1,460
	Space cab	Pick-up			1,526	
		Cab-chassis				1,515
	Crew cab	Pick-up		1,555		1,650

G.V.M.

Gross Vehicle Mass (G.V.M.) is the total weight that a vehicle is allowed to weigh when fully loaded. This must include luggage, passengers, a full tank of fuel and towbar ball load. The maximum, allowable G.V.M. for 2WD vehicles is 2,730 kg, 4WD is 2,740 kg.

TOWING CAPACITY

You may tow a loaded caravan or trailer weighing up to 1,800 kg, provided the G.C.M. is not exceeded. This means that if your Rodeo is heavily loaded you would not be able to tow 1,800 kg because the combined weight of the trailer and Rodeo would exceed the G.C.M. set out below.

G.C.M.

G.C.M., or Gross Combined Mass is the maximum, allowable combined weight of a vehicle (with passengers, luggage and a full tank of fuel) plus the weight of a packed trailer.

If your trailer (or caravan) is fitted with braking which is initiated by the driver (NOT over-run operated trailer brakes) then the maximum, allowable G.C.M. for 2WD vehicles is 3,730 kg, 4WD is 3,740 kg.

If your trailer (or caravan) is not fitted with driver initiated braking then the maximum, allowable G.C.M. for 2WD vehicles is 3,230 kg, for 4WD is 3,240 kg.

TOWBAR BALL LOAD

Towbar ball Load is the weight on the towbar ball when the packed trailer is hitched.

Ideally, the ball load should be 10% of the packed trailer weight. This can be adjusted by correctly packing the contents of the trailer.

If the ball load is too light or too heavy, the steering and handling of the vehicle will be greatly impaired.

FRONT & REAR AXLE LOADS

The maximum allowable front axle load for 2WD vehicles is 1,050 kg, 4WD is 1,100 kg. The maximum allowable rear axle load for both axle types is 1,680 kg. However, the combination of the front and rear axle load should never exceed the maximum G.V.M.

Remember to take the towbar ball load into account when determining the rear axle load.

SAFE TOWING TIPS

Your vehicle will handle differently with a towed load. It's a good idea to make a proper familiarization run.

Have your vehicle correctly maintained and serviced.

You should have an extended-arm mirror on both sides of your vehicle.

Headlights may need re-aiming after the loaded trailer has been hitched.

Use a lower gear, rather than your brakes when descending steep hills.

Avoid sudden steering manoeuvres at high speed to minimize trailer weight affecting vehicle and trailer control.

TOWING PRECAUTIONS

1. Do not use axle-mounted hitches.
2. Trailer brakes must meet State Law requirements where you will be driving.
3. It is permissible to tap into the brake system with a unit not more than 0.21cc of fluid displacement during the operation of the brakes.
4. Ensure that the tow bar does not obscure the rear licence plate, as this may violate State Law. If necessary, the towbar tongue may need to be removed when not required for towing.
5. Correctly rated towbar and tongue package must be used.
6. If your vehicle has an automatic transmission then the fluid in the transmission will have to be changed more often when towing, refer page 8-2.

RUNNING-IN WHEN TOWING

It is best to drive your new vehicle for 1,500 km before towing a load. If you must tow before this do not exceed 80 km/h on good roads. No heavy, off road towing should be attempted before 1,500 km.

"Running-in"

These days, there's no need to follow the formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle's future performance and economy.

For the first 500 kilometres, don't exceed 90 km/h. Up to 1,500 kilometres avoid driving at any one speed - either slow or fast - for any length of time.

Include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 kilometres heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

It is best to drive your new vehicle for 1,500 kilometres before towing a load. If you must tow before this do not exceed 80 km/h on good roads. No heavy off road towing should be attempted before 1,500 km.

4WD - also refer page 3-9 for running-in front wheel drive axle components.

How to reduce fuel consumption

(1) VEHICLE MAINTENANCE

Maintain your vehicle in peak mechanical condition by having it serviced regularly in accordance with the Maintenance Schedule, refer page 8-1. This will ensure items such as engine timing, spark plugs, air cleaner, engine idle speed etc. are maintained for least fuel consumption.

(2) TYRE PRESSURES

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance which contributes to increased fuel consumption, refer page 6-7.

(3) WARM UPS AND EXCESSIVE IDLING

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively by driving on the road.

You should also avoid excessive engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

(5) ACCELERATING, DRIVING AND BRAKING

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle accelerations - they're certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to achieve top gear operation as soon as possible, but under no circumstances should you force the engine to labour in top gear.

NOTE: "Riding the brake" by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake linings and pads faster, damage the brakes and waste fuel.

Chapter 4

Accidents & Emergencies

Page

4-1 - What to do at the Scene of the Accident
4-2 - Medical Assistance
4-3 - Hazard Warning Flashers
4-3 - Towing a Vehicle
4-4 - Spare Wheel & Tools
4-5 - Flat Tyre
4-7 - Engine Overheating
4-9 - Flat Battery
4-11 - Draining of Water Separator (Diesel)
4-12 - Bleeding of Fuel System (Diesel)

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to mouth resuscitation, may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. The following notes may help.

Part 1. Accident - being involved.
Part 2. Accident - being a witness.
Part 3. Medical assistance.

Part 1. Accident - being involved.

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see Part 3. Medical assistance).

Send for police and ambulance if anyone has been injured. Send information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his or her representative; to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Part 2. Accident - being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident, do this:

Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.

DO NOT stop at the scene of an accident *just to be a spectator.*

Where other people are already in attendance and giving assistance, **you should stop only if you can contribute assistance.**

Give what assistance you can to any injured persons. (See Part 3. Medical assistance).

Follow most of the steps suggested in Part 1. Perhaps you may have to take charge of the accident situation.

Part 3. Medical assistance

Keep calm and think clearly.

Your experience may not be much but do your best. Don't just stand by and let an injured person die.

Look after the unconscious person first. Check for breathing. If no breathing, than check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

You must be most careful in moving an injured person. Often it is best not to move at all but in conditions of danger, this is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.

Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the position illustrated here.

Lay the person on one side and - if it will not aggravate any injures - then:
Bend the uppermost knee until the thigh is at right angle to the body.
Bend the uppermost arm and elbow so that the hand lies near the face.
Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.

Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm *but not hot*. Best not to give any fluids and NEVER ALCOHOL.

If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending the neck, spine and injured limbs. **Keeping the neck and spine straight is most important.**

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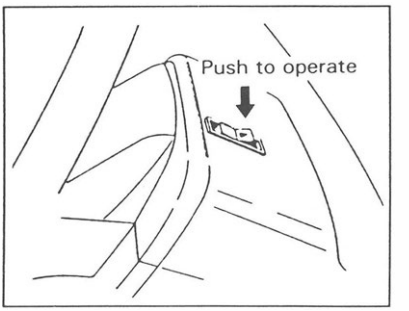
Hazard warning flasher

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.



Turn on the hazard warning flasher by pushing the furthest section of the switch. The arrow symbols on the instrument panel will both flash simultaneously and all four external signal lights will flash continuously.

The hazard warning flasher will work with the ignition either off or on.

To turn off, push the closer section of the switch.

Towing a disabled vehicle

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage during any towing operation. State and Local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.

Place transmission in neutral position and release the park brake.

Switch the ignition key to "ON" position. This will free the steering lock and allow the correct operation of windshield wipers and turn signals.

For the sake of safety and to prevent damage to the vehicle it is advisable to avoid jerky movements and to drive slowly during towing operations.

Remember that power assist for brakes and power steering (where fitted) will not be available when the engine is off.

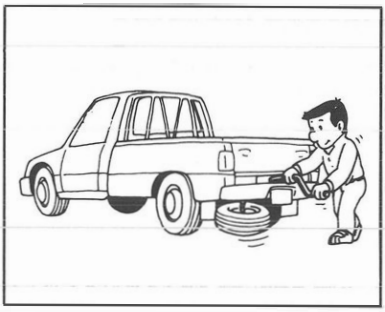
To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and stop entry of air by moving heating and ventilation controls to "OFF" position.

Vehicles fitted with automatic transmissions must not be towed for more than 55 kms or at over 55 km/h unless the propeller shaft is removed.

Vehicles with damaged transmissions must not be towed unless the propeller shaft is removed.

Only the driver should be in a towed vehicle.

Spare wheel

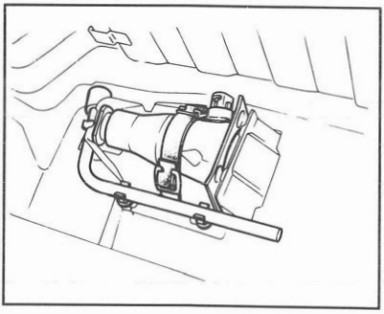


The spare wheel is secured to the rear part of the chassis frame with a chain.

To lower the spare wheel, insert the jack handle into the hole in the rear face of the vehicle to engage the catch and turn the handle anti-clockwise.

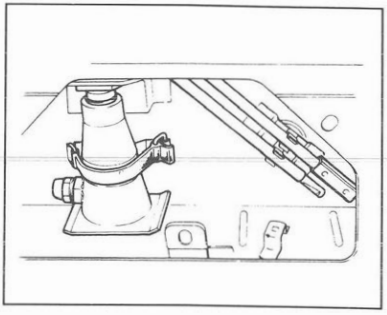
To raise, turn the handle clockwise to "stop" and give an additional turn to securely hold the spare wheel in position.

Tools (single cab models)



The jack and wheel wrench are stored behind the rear of the seat. The jack handle is stored on the back panel. To access, tilt the back of the seat forward, using the lever attached to the back of the seat.

Tools (crew cab and space cab models)

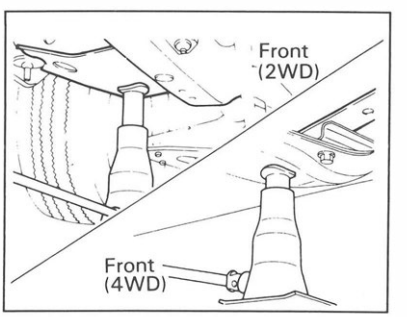


The jack, wheel wrench and (two piece) jack handle are stored in a compartment. This is located at the rear of the passenger's seat for space cabs. Crew cab models have the compartment located under the rear seat. To access, lift up the rear seat cushion, which is fastened by a lock catch under the centre of the seat.

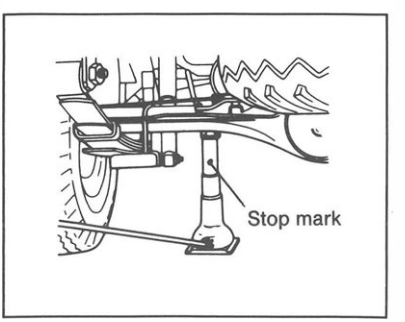
CAUTION:
- Use jack only for lifting vehicle when changing wheels.
- Never get beneath the vehicle when it is only supported by the jack.
- Do not start or run the engine while the vehicle is only supported by the jack.
- All passengers should be out of the vehicle when it is being jacked.
- This jack is a two-stage type. When both rams are raised and the stop mark of the upper ram becomes visible, stop jacking immediately. Further extension of the ram may damage the jack.

1. Park on level surface and set parking brake firmly.
2. Vehicles with automatic transmissions should be placed in PARK, manual transmissions in REVERSE.
3. Remove ignition key.
4. Remove the jack, jack handle, wheel wrench and spare wheel (see previous page).
5. Block the wheel diagonally opposite the jacking position.
6. Loosen, but do not remove, wheel nuts by turning wheel wrench anti-clockwise.
7. Place jack at recommended jacking point.

Front



Rear: under the rear axle housing near the wheel.



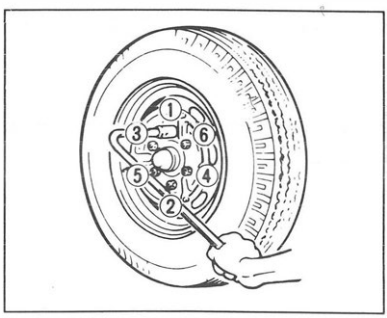
Ensure that the jack is not tilted and that the base is resting squarely on the ground.

CAUTION: Failure to position the jack as described could result in serious personal injury or vehicle damage caused by the vehicle slipping off the jack.

8. Raise the vehicle until the wheel Is clear of the ground. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.

9. Remove the wheel from the vehicle and change it over with the spare.

10. Replace centre cap (if so equipped), replace the wheels nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.



11. Lower the vehicle completely and remove the jack.

12. Fully tighten the wheel nuts with the wheel wrench in the sequence shown above.

13. Stow the jack, jack handle, wheel wrench and flat tyre in the rear of the vehicle, as shown on page 4-4.

CAUTION: As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 90~100 Nm (70~76 ft.lbs).

Wheel nuts should be tightened evenly to the correct torque in the sequence shown as improperly tightened wheel nuts could eventually allow the wheel to come off while the vehicle is moving!

CAUTION: If the engine should overheat, as indicated by the temperature gauge reading or if you suspect there is a serious overheat condition immediate action is required. Continued operation of the engine EVEN FOR A SHORT TIME could result in a fire and the possibility of personal injury and/or severe vehicle damage.

If the coolant temperature gauge needle should move all the way to the "H" position and remain there for more than 30 seconds, pull out of the traffic as soon as it is safe to do so and stop the engine.

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

Now open the bonnet and while the engine is cooling, check the fan belt is intact and that it turns when the engine is cranked.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the level of coolant in the radiator and surge tank.

CAUTION: Do not remove the radiator and surge tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious personal injury.

When the engine has cooled sufficiently, remove the radiator cap - cover the cap with a thick cloth, and turn slowly anti-clockwise (without pressing down) until it reaches a "stop". This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the cap and continue turning it anti-clockwise until it can be removed.

With the radiator cap OFF, top up the surge tank if required, refer page 6-3 if unsure. Remember to ensure surge tank cap is secure after filling. Then, WHILE THE ENGINE IS IDLING, top up the radiator (if required) and replace the radiator cap.

If, after taking one or more of the actions above and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

NOTE: The engine may temporarily operate at high temperature during more demanding operating conditions, especially on very hot days. These conditions include:

climbing a long hill

stopping immediately after high speed driving

idling for long periods in traffic

towing a heavily laden trailer or caravan.

You should avoid operating your vehicle for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature.

Refer to page 6-3 which gives maintenance instructions to help protect your cooling system from overheating.

If your vehicle will not start due to a discharged battery, it can often be started by using energy from another battery - a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.

Jump starting

CAUTION: Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.

Do not smoke near a battery.

Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.

Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paintwork and fabrics if not washed off immediately.

Be sure any batteries that have filler caps are properly filled with fluid.

Remove rings, metal watch bands and other metal jewellery before working around the battery.

Carefully follow each step in the jump starting procedures.

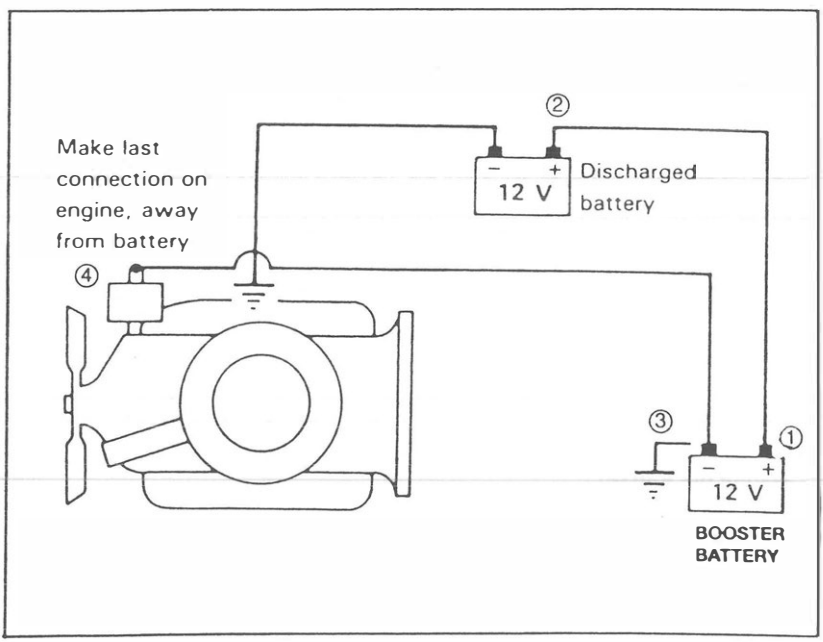
Never use a quick charger to start your engine.

1. The battery of your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle (that is being used to jump start the flat battery) must be the same voltage and also have a negative earth. So, check the specifications in the other vehicle's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used.

2. Position the two vehicles so that they are NOT touching and apply the park brakes. Automatic transmissions are to be placed in PARK and manual transmissions placed in NEUTRAL. Turn off ignition and all lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.

3. Attach one end of the first jumper cable (1) to the positive terminal of the other vehicle's battery (identified by a red colour, + or P on the battery case, post or clamp) and the other end of the same cable to the positive terminal of your vehicle's battery (2).

4. Attach one end of the second jumper cable (3) to the negative terminal (identified by a black colour, - or N on the battery case, post or clamp) and the other end to a solid stationary, metallic point on your vehicle's engine (4). DO NOT CONNECT DIRECTLY TO NEGATIVE POST OF VEHICLE'S BATTERY. See below.



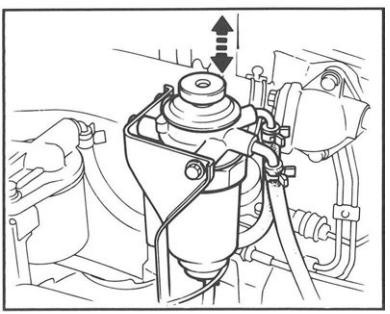
5. When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.

6. Start the engine in the other vehicle and run the engine at a moderate speed. Then start the engine in your vehicle.

7. When the engine starts, leave it running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

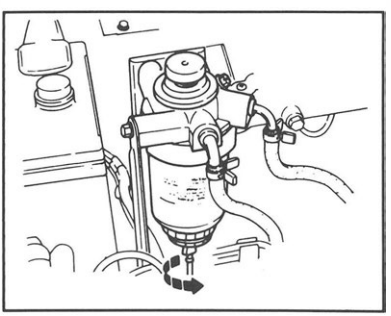
The fuel filter has a sedimentor chamber for settling water separated from fuel. If the indicator glows on the instrument panel (refer page 1-4) the water in the sedimentor chamber must be drained.

Open the bonnet and place a small container (approximately 0.2 litre capacity) at the end of the vinyl hose beneath the drain plug on the separator.



Loosen the drain plug (approximately five turns) and operate the manual pump up and down (about 10 times) until 0.1 litres of water has been drained.

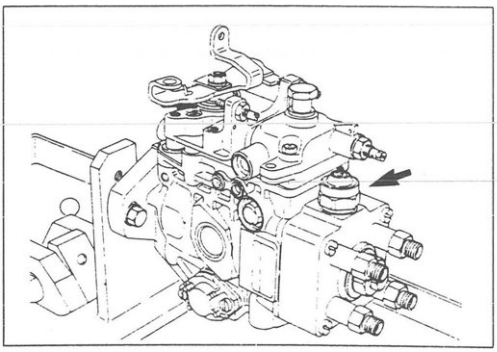
After draining, securely tighten the drain plug and operate the manual pump up and down several times.



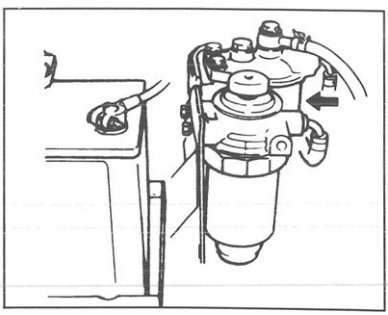
After starting the engine, check to see that no fuel leaks from the drain plug. Also check to see that the indicator light has turned off.

If the water separator requires frequent draining, have the fuel tank drained for removal of water at your Holden Dealer.

If the fuel tank has been emptied, the chance is that air might have entered the fuel system. With air in the fuel system, smooth flow of fuel into the engine is interrupted and to correct this, bleeding of the fuel system should be performed after refuelling.



1. Loosen the nut retaining the solenoid valve wire.
2. Loosen the solenoid valve.
3. Operate the priming pump until fuel comes out around the solenoid valve. Continue pumping until no air bubbles appear in the fuel being pumped out.



4. After bleeding, tighten the solenoid valve to 18ft lbs torque.
5. Tighten the wire retaining nut.
6. Operate the priming pump several times.

Chapter 5

Warranty, HoldenWise, Holdenwise Roadside Service Authorised Holden Dealers, Customer Assistance

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5-1	New Vehicle Warranty
5-3	Parts and Accessories Warranty
5-4	Warranty Questions & Answers
5-7	HoldenWise
5-9	HoldenWise Roadside Service
5-11	Authorised Holden Dealers
5-19	Customer Assistance

Note: Dealership names and addresses may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

Isuzu-General Motors Australia Limited, A.C.N. 006 962 572, hereinafter I-GM, warrants that it will make good without charge, any defect which appears in the vehicle identified in the vehicle identification certificate, found on the inside front cover of this handbook.

Provided, for the Vehicle Warranty

1. the defect has been notified to an authorised Holden Dealer or Service Dealer:

   (a) before the vehicle has travelled a distance of 50,000 km or,

   (b) within 24 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 24 months of the date when it was first placed into service by the Dealer)

   whichever comes first,

   AND

   for the Powertrain Warranty

   the defect has been notified to an authorised Holden Dealer or Service Dealer:

   (c) before the vehicle has travelled a distance of 100,000 km or,

   (d) within 36 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 36 months of the date when it was first placed into service by the Dealer)

   whichever comes first,

   AND

2. the vehicle has been returned to an authorised Holden Dealer or Service Dealer

   AND

   the Dealer has determined that the defect complained of is one of workmanship and is not caused by

   (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or by neglect

   (b) operation of the vehicle after it is known to be defective

   (c) accident or deliberate act

   (d) atmospheric fallout or flood, hail, salt, etc.

   (e) failure to carry out proper maintenance service

   (f) use of incorrect types and grades of fuel, oil or lubricants

   (g) alteration or modification of the vehicle by any party not authorised by I-GM

   (h) the fitting of parts or accessories not marketed by I-GM

   (i) any work carried out on the vehicle by someone other than an authorised Holden Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by I-GM's) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF I-GM, BY REPLACEMENT.

NEW VEHICLE WARRANTY CERTIFICATE cont.

Excluded from the 24/50 Vehicle Warranty are:

defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and services such as engine tuning, brake adjustment, replacement of air/oil/fuel filters, wiper rubbers etc., which are required as part of normal vehicle maintenance.

Covered by the 36/100 Powertrain Warranty are:

1. **ENGINE**
   - a) **BASIC ENGINE ASSEMBLY PLUS**
     Intake manifold; exhaust manifold; super charger; turbo charger; intercooler; seals and gaskets; mountings; flywheel; E.F.I. components; carburettor/throttle body; fuel pump; injection pump; vacuum pump; injector nozzles; hoses and pipes for vacuum and EGR and PCV and fuel systems; fluid coupling; water pump.
   - b) **EMISSION CONTROL**
     Air pump; air injection manifold; air suction manifold and valve; throttle positioner; modulator; catalytic converter; positive crank case ventilation system; air injection by air suction system; emission control system; exhaust gas re-circulation system.
   - c) **ENGINE RELATED COMPUTERS**
     Engine control computer; emission control computer; E.F.I. computer; sensors.
2. **TRANSMISSION**
   Transmission; transaxle; transfer case assembly; torque converter; transmission control computer; mountings; seals and gaskets.
3. **CLUTCH**
   Cover Assembly
4. **FRONT / REAR AXLE**
   Axle Housing, Drive Shaft, Constant Velocity Joint, Propeller Shaft, Axle Hub, Axle Shaft, Bearing, Hub Bolts, Nuts, Oil Seals.
5. **SAFETY RESTRAINT**
   Seat Belts, Sensor Switch, Air Bag, Computer.

Excluded from the 36/100 Powertrain Warranty (but included in the 24/50 Vehicle Warranty) are:

Radiator; heater core; shock absorbers; springs and suspension mounting components; exhaust system; ignition coil/module; distributor; alternator; starter motor; fuel tank; transmission external linkages; wheels; instrumentation switches; spark plug leads plus any other components not specifically listed in Powertrain components shown above.

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all rights conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

I-GM warrants in respect of I-GM Parts and Accessories ("Parts" and "Accessories") that it will make good by repair or at its option by replacement any defect occurring in any such Parts and Accessories within 12 months from the date of acquisition or in the case of a Part or Accessory installed in a vehicle by a Holden Dealer or Service Dealer, within 24 months or before such vehicle has travelled a distance of 50,000 km from the date of installation, whichever first occurs.

Excluded from this warranty are maintenance items such as filters, spark plugs, wiper blades, etc. which require replacement as part of normal vehicle maintenance.

PARTS AND ACCESSORIES WARRANTY EXPLANATION

I ACCESSORIES - NEW VEHICLE

Accessories installed by a Holden Dealer or authorised Service Dealer to the new vehicle at the time of purchase are covered by the I-GM New Vehicle warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

ii PARTS AND ACCESSORIES - INSTALLED DURING NEW VEHICLE WARRANTY PERIOD

Parts and/or Accessories installed by the Dealer or authorised Service Dealer during the new vehicle warranty period are covered by the unexpired portion of the new vehicle warranty. After expiry of the new vehicle warranty, the Parts and Accessories warranty will apply until the expiration of 24 months/50,000 km (whichever occurs first) from date of fitment.

iii PARTS AND ACCESSORIES - INSTALLED AFTER EXPIRY OF NEW VEHICLE WARRANTY

Parts and/or Accessories installed by the Dealer or Service Dealer after expiration of the new vehicle warranty are covered by the Parts and Accessories warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

iv PARTS AND ACCESSORIES - PURCHASED AT RETAIL OR TRADE

Parts and/or Accessories purchased at trade or retail and installed by other than the Dealer or Service Dealer are warranted for 12 months from date of purchase. In these instances it is necessary to preserve proof of sale records to support warranty claims.

v PARTS AND ACCESSORIES WARRANTY EXCLUSIONS

Defects in tyres, these being warranted by their manufacturers, batteries which are covered for 12 months and maintenance service items, such as spark plugs, oil/air/fuel filters, coolant/inhibitor, wiper rubbers, brake pads, linings and discs, clutch linings, refrigerant, drive belts, distributor ignition points, bulbs and fuses, which are warranted against manufacturing defect existing at time of installation.

Where this Handbook specifies a schedule for replacement of parts, such parts are covered by parts warranty for the extent for the specified maintenance service interval.

This section is designed to assist you in understanding the I-GM Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

Q 1. How do I go about obtaining I-GM Warranty Service?

It is the responsibility of the Selling Dealer to provide I-GM Warranty service, therefore you should take your vehicle to the Selling Dealer whenever I-GM Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the IGM New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or I-GM Customer Assistance Service (refer last page of this chapter) as soon as possible, and arrange for that Dealer to carry out the required I-GM Warranty Service.

Q 3. What should I do if, in an emergency, I-GM Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the I-GM New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is *not* practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with I-GM Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required I-GM Warranty Service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or I-GM Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the I-GM Warranty?

No, these items are not covered. I-GM warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the I-GM New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the I-GM New Vehicle Warranty, but any claim based on those rights should be separately pursued.

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the I-GM New Vehicle Warranty. However, the scheduled 5,000 km service specified in chapter 8 of the handbook is provided 'labour free'. Lubricants and parts used for this service will, however, be charged to the owner. This is provided that your vehicle has been operated under *normal* operating conditions (refer page 8-3) and also that no modification (other than a modification made by, or at the direction of, I-GM) has been made to your vehicle. The Maintenance Schedules in this handbook specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay for include:

- Clutch facings
- Engine tune-up, including spark plugs replacement.
- Replacement of all filters.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after the 5,000 km service.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 5,000 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing - after 5,000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads - after the 5,000 km service.
- Brake lining wear or damage.
- Brake disc pad or disc wear.
- Battery re-charging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after the 5,000 km service.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments - after the 5,000 km service.
- Body rattle, squeaks and general tightening of bolts, fastenings and fittings - after the 5,000 km service.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.

Q 6. Are my tyres covered by the I-GM New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

Q 7. Are I-GM parts and accessories covered by warranties?

If you buy an I-GM part or accessory from an Authorised Holden Dealer it will be warranted by that Dealer, under the I-GM parts and accessories Warranty, against defects in materials or workmanship for 12 months, from the date of purchase. In the case of an I-GM part or accessory which has been installed in a vehicle by a Holden Dealer, it will be warranted for 24 months or 50,000 km (whichever occurs first) from the date of installation.

Defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and maintenance items such as filters, spark plugs, wiper blades and brake pads/linings require replacement as part of normal maintenance. Such replacements are not the subject of this warranty.

Q 8. Will I have to pay for any costs or expenses in connection with the provision of I-GM Warranty service?

All parts and labour used in carrying out I-GM Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever I-GM Warranty service is to be carried out by the Servicing Dealer it is your responsibility to deliver your vehicle to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the I-GM New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required I-GM Warranty Service, I-GM will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or I-GM Customer Assistance Service (refer last page of this chapter) to obtain guidance.

Q 9. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by I-GM ?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle.

Only the fluids and lubricants referred to in this handbook should be used.

ONE FEATURE EVERY CAR MAKER WOULD LOVE TO BE ABLE TO OFFER.

Holden, a lot more than just a vehicle

As you'll soon discover, your new Holden is a lot more than just a vehicle..... because every Holden comes with one very special feature, HoldenWise.

HoldenWIse was created to offer Holden owners the best Australia wide customer care system possible. To do this we've drawn on all the technical resources and service skills of I-GM. However, the key to our service is and always will be, people, with over 5,000 Holden service and parts specialists spread across the country. Thanks to them, we can offer HoldenWise Customer care at participating Holden Dealers with complete confidence.

Holden Specialists

HoldenWise technicians have been specially trained by the factory and have the experience in service and parts skills necessary to work on your vehicle. As you can imagine Holdens today are a lot more sophisticated than they used to be, which means specialist service is essential.

Knowing Holdens so well, our technicians know exactly how long each service takes, which is why Holden dealers can offer fixed price servicing.

HoldenWise Fixed Price Servicing

HoldenWise has eliminated one of the big worries about vehicle services, not knowing what the bill will be. Every participating Dealer service centre offers fixed price servicing. You need only ask and you'll be given a quote on how much the job will cost before it's started. So there are no nasty surprises when paying the bill.

Of course, if during the service, a problem is discovered, you'll be telephoned immediately before any more work is done.

You may be comforted to know that all participating Dealer work is covered by a workmanship warranty.

HoldenWise Workmanship Warranty

All services and repairs are covered by a 6 month/10,000 km Dealer warranty on workmanship. If a fault arises during that period, due to the service, your Holden Dealer will fix it. But workmanship isn't the only thing that is guaranteed.

I-GM Parts Warranty

The parts used in HoldenWise services are manufactured and tested to the same high standards as the originals, so I-GM quality parts carry the same 24 month/50,000 km warranty when fitted by the Dealer. Naturally the warranty does not apply to normal maintenance parts like oil filters and spark plugs.

Whilst on the subject of parts, how often have you been told you'll have to wait a while until the parts can be found?

Thanks to the HoldenWise network, it's something you're unlikely to encounter at your Holden Dealer.

The HoldenWise Network

Most HoldenWise Dealer service and parts centres are computer linked through to the factory, which means you'll never have to wait an eternity for the right parts to be found.

What's more, with around 350 Dealers nationwide, you'll never be far from the same high standard of service.

I-GM Accessories

I-GM accessories are designed and approved as an integral part of your vehicle so you know they will fit and function precisely. When installed by the Holden Dealer to your new vehicle, I-GM accessories are covered by the I-GM warranty of 24 months or 50,000 km for your added protection.

Customer Assistance

Finally, we suggest you read the last page of this chapter for information on I-GM Customer Assistance Service.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN'S PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any I-GM product or in connection with the supply of any I-GM product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by I-GM in its published sales literature, and the Company does not accept any such unauthorised action.

3YEAR/ 24 HOUR ROADSIDE SERVICE

Our commitment to your satisfaction

HoldenWise Roadside Service is part of the unequalled commitment of Holden's to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing, and now beyond to the open road.

HoldenWise Roadside Service is your key to worry free motoring - one that covers you from your driveway to the open road, Australia-wide.

We hope the need never arises, but if it does, we'll be there to help through HoldenWise Roadside Service.

How does Holdenwise Roadside service work?

When you decide to buy a new Holden, you will have made a wise purchase decision and you will become a member of an exclusive club of Holden owners, covered by a 24 hour a day, 365 day a year, professional service for 3 years.

HoldenWise Roadside Service is provided by General Motors-Holden's Automotive Ltd., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of the Australian Automobile Association) the 'AAA'.

Which cars are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months service.

HoldenWise Roadside Service is extended to private and business cars, taxis, rental companies, all government and fleet operators.

What will Holdenwise roadside service do for me?

HoldenWise Roadside Service is designed to get you mobile after your vehicle has become disabled on a constructed road that is trafficable to normal two wheel drive vehicles.

Your vehicle must be disabled due to (non-collision related) mechanical failure/driver fault i.e. flat tyre, flat battery, locked out of the vehicle, or have simply run out of petrol.

Where permanent repairs are either not possible or practicable, temporary repairs will be carried out, or the vehicle towed to a Holden Dealer or approved repairer.

When do the benefits begin?

Cover begins the moment a Holden vehicle is purchased. An Interim Registration card entitles you to immediately receive all the benefits of HoldenWise Roadside Service.

Where can I get HoldenWise roadside service?

The professional service of HoldenWise Roadside Service is available to you at home, or at the roadside, anywhere in Australia, should you need it.

What happens if my vehicle needs major repairs?

In the case of a breakdown where the vehicle cannot be made driveable or where temporary repairs may void the warranty, HoldenWise Roadside Service will provide towing to the nearest Holden Dealer, or if not geographically practicable, to the local 'AAA' constituent service facility. It is the responsibility of the owner to seek Holden's approval before any repairs are undertaken by a non Holden Dealership. This action will ensure the warranty remains valid.

During an after-hours' breakdown and where the metropolitan Holden Dealer or 'AAA' constituent's approved repairer is not open, the vehicle may be towed to any other location nominated by the driver not exceeding 20 kilometres from the point of breakdown.

Is there any membership or joining fee?

No, you will not be required to pay any fees. Every new Holden passenger car and light commercial vehicle owner is eligible for HoldenWise Roadside Service for 36 months.

What will HoldenWise roadside service cost me?

Materials, fuel and spare parts supplied during the service must be paid for at the time of the service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting the local Holden Dealer.

What happens if I sell my vehicle?

Holdenwise Roadside Service stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the service. The new owner simply registers for the service by using the change of ownership form supplied in the member's kit.

Roadside 'ULTRA' - Prestige cars

Holden Caprice, Statesman, Calais or Calibra receive the additional cover of 'Roadside Ultra'. This additional cover provides the new owner with all the benefits of HoldenWise Roadside Service along with some very valuable extras, including accommodation, alternative transportation, rental car and Australia-wide vehicle recovery.

HSV - Holden Special vehicles

Purchasers of Holden Special Vehicles automatically qualify for the coveted HSV Gold Lion package. This package provides the Gold Lion Member with all the benefits of HoldenWise Roadside Service and where applicable, the enhancement package 'Roadside Ultra'.

How do I call for service?

Simply call **1800 817 100**, the HoldenWise toll free number from anywhere in Australia

The HoldenWise Roadside Service Kit contains full details of the service and any limitations that may apply. In the meantime further information is available from the toll free Holden's Customer Assistance Service line, on **1800 032 608**.

N.S.W. Metropolitan

ARNCLIFFE	Suttons Motors Arncliffe P/L - 93 Princes Highway
ASHFIELD	Muirs Motors (Ashfield) P/L - 252 Parramatta Road
BALGOWLAH	James Langfield Holden - 164 Condamine Street
BANKSTOWN	Princeton Holden - 466 Chapel Road
BLACKTOWN	West City Holden - 120~128 Sunnyholt Road
CABRAMATTA	John Abrahams Holden - 266~284 Hume Highway
CAMPBELLTOWN	Paul Wakeling Holden - Cnr Blaxland & Campbelltown Rds
CASTLE HILL	Windsor Road Holden - Cnr Victoria Ave/Windsor Rd
CHULLORA	Suttons Motors (Chullora) P/L - Cnr Hume Hwy/Waterloo Rd
CROW'S NEST	New Hunter Holden - 446 Pacific Hwy
DEE WHY	Peninsula Holden - Cnr May & Mooramba Roads
GORDON	Sundell Holden - Cnr Pacific Hwy/McIntyre St
HOMEBUSH	Suttons Motors Homebush P/L - 112 Parramatta Road
LAKEMBA	Boyded Holden Lakemba - 817 Canterbury Road
LIVERPOOL	A.C. McGrath & Co Pty Ltd - 411~419 Hume Highway
NEWPORT	Esso Car Care Centre (Mobil) - 340 Barrenjoey Road
PARRAMATTA	Boyded Holden Parramatta - 65 Church Street
PENNANT HILLS	Barry Smith Holden - 351~355 Pennant Hills Road
PENRITH	John Young Holden - 39~47 Henry Street
ROCKDALE	Peter Terry Holden - 571 Princes Hwy
ROSEBERY	Suttons City Holden - Link Road
RYDE	Hunter Holden - 603~605 Victoria Road
SPRINGWOOD	Springwood Holden - 15 Ferguson Road
ST LEONARDS	New Hunter Holden - 4 Herbert Street
ST. MARY'S	John Young Holden - Cnr Glossop & Harris Streets
SUTHERLAND	Greg Ball Holden - 499~505 Princes Highway
WAITARA	Suttons Motors Waitara P/L - 90 Pacific Hwy
WINDSOR	Hawkesbury Valley Holden - 18 Macquarie Street

N.S.W. Country

ALBURY	Brian White Holden - 647~657 Dean Street
ARDLETHAN	Halden's Auto Repairs - 18 Mirool Street
ARMIDALE	New State Motors - 103 Rusden Street
BALLINA	Quayside Motors - Pacific Highway
BARHAM	Hall's Motors Pty Ltd - 44 Noorong Street
BATHURST	Bathurst Motors Pty Ltd - 54 Durham Street
BATLOW	Robert Broadhurst Holden - Pioneer Street
BEGA	South Coast Holden - 247 Carp Street
BELLINGEN	E.H.H. Raymond Pty Ltd - Broadway
BELMONT	Challenge Holden - 444 Pacific Highway
BLAYNEY	Alan May Auto. Services - 98 Adelaide Street
BOMBALA	Delcott Engineering Pty Ltd - Maybe Street
BOOROWA	Boowowa Auto Repairs - 40 Marsden Street
BOURKE	Bourke Auto Electical & Mechanical - 15 Richard Street
BREWARRINA	Lukas Holden - Bathurst Street
BROKEN HILL	Donlee Motors Pty Ltd - Cnr Galena & Rakow Streets
CAMDEN	Paul Wakeling Pty Ltd - 15 Camden Road
CANOWINDRA	Canowindra Motors - Gaskill Street
CARDIFF	Brian Kelly Holden - 35~39 MacQuarie Road
CASINO	McKinnon Holden - 142 Barker Street

CESSNOCK	Geoff Boyd Holden - 173~175 Wollombi Road
COBAR	Cobar Motors Pty Ltd - Barton Street
COFF'S HARBOUR	Geoff King Holden - Cnr Pacific Hwy and Thompson Road
COOLAMON	Coolamon Motors - Cowabbie Street
COOMA	Summit Holden - 66~70 Sharp Street
COONABARABRAN	Allan Cooper Holden - John Street
COONAMBLE	Moody's Motors - 37 Aberford Street
COOTAMUNDRA	Jenkins Garage - 111 Wallendoon Street
COROWA	R.W.E. Fraser & Co Pty Ltd - 218 Honour Avenue
COWRA	Waugoola Motors Pty Ltd - Kendal Street
CROOKWELL	Crookwell Autos - 114 Goulburn Street
DENILIQUIN	Burchfield Bros & Co - 112~114 End Street
DORRIGO	Phil Noble Motors - 46~48 Hickory Street
DUBBO	John Kierath - 54 Bourke Street
DUNGOG	Turner Holden - 248 Dowling Street
EDEN	Ron Doyle - 113 Imlay Street
FINLEY	Riverina Garage Finley - 104 Murray Street
FORBES	Paddison & Co - Cnr Rankin St & Court Lane
GILGANDRA	Allan Cooper Holden - 106 Warren Road
GLEN INNES	Glen Severn Holden - 167 Grey Street
GLOUCESTER	Grahame's Garage Pty Ltd - 1 Park Street
GOSFORD	Noble Holden - Pacific Highway
GOULBURN	Geissler Motors - 279~298 Auburn Street
GUNDAGAI	Smith Motors - Sheridan Street
GRAFTON	Ken Casson Holden - 71~75 Spring Street
GRENFELL	Terry Carroll Motors Pty Ltd - 40 Alexandra Street
GRIFFITH	Leo Franco Holden - 164~166 Yambil Street
GULARGAMBONE	Gulargambone Motors - Bourbah Street
GUNNEDAH	Namoi Valley Motors - 48 Barber Street
GUNNING	Bailey's Garage Pty Ltd - Yass Street
GUYRA	Burgess Garage Pty Ltd - 131~143 Bradley Street
HARDEN	Ginty & O'Leary - Cnr Station & Albury Streets
HAY	Royce Curtis Motors - 168 Lachlan Street
HOLBROOK	Lieschke Motors Pty Ltd - Albury Street
INVERELL	Gaukroger Sales Pty Ltd - Vivian Street
JERILDERIE	Jerilderie Motors - Jerilderie Street
KANDOS	Chrisfield Holden - 11 Angus Street
KATOOMBA	Katoomba Holden - 136 Great Western Highway
KEMPSEY	Thoroughgood Motors - 118~132 Belgrave Street
KIAMA	Glen Fulton Holden - 35~41 Collins Street
KYOGLE	O & A Holden - 128~134 Summerland Way
LEETON	John Ryan Holden - 47 Pine Street
LISMORE	John Chant Motors Pty Ltd - 21~27 Carrington Street
MACKSVILLE	Eastland Auto Centre - 18~22 Cooper Street
MACLEAN	O'Halloran Motors - 175 River Street
MAITLAND	Heritage Holden - 557~567 High Street
MOREE	Keith Haddad Holden - Cnr Boston & Heber Streets
MORUYA	Surfair Holden - 88 Vulcan Street
MOSS VALE	Vagg & Partners Holden - 160~162 Argyle Street
MULLUMBIMBY	Tony Carsburg Holden - 2 Argyle Street
MUDGEE	Ross Granata Motors - 47~55 Market Street
MURWILLUMBAH	Tweed Motors Murwillumbah - 29 Prospero Street

MUSWELLBROOK	Upper Hunter Motors Pty Ltd - 116 Bridge Street
NARRABRI	Allan Cooper Holden - 181 Maitland Street
NARRANDER	A C. & S. Coelli - 7 King Street
NARROMINE	L.E. Stanley Pty Ltd - Dandaloo Street
NEWCASTLE	Young & Green Pty Ltd - 745 Hunter Street
NOWRA	Glendon Motors Holden - 301~313 Princes Highway
ORANGE	Canobolas Holden - 348 Summer Street
PARKES	Go Motors of Parkes - Cnr Mitchell & Clarinda Sts
PEAK HILL	S.Leary & Sons Pty Ltd - Mingelo Street
PORT MACQUARIE	Todd Holden - 16~20 Clarence Street
QUIRINDI	Browning Motors - 82 Henry Street
SCONE	Upper Hunter Motors (Scone) - 100 Liverpool Street
SINGLETON	Lancaster Holden - 80 John Street
TAMWORTH	Kensell's Holden - Cnr Bourke St & Kable Ave
TAREE	Hardes Auto House - 61 Manning Street
TEMORA	Rod Lovering Holden - 2 Stockinbingal Road
TENTERFIELD	Sexton & Green (Sales & Service) P/L - 148 Rouse Street
TUMBARUMBA	D & A Goldspink - Albury Street
TUMUT	Nancarrow Holden - 35 Fitzroy Street
TWEED HEADS	Tweed Motors Pty Ltd - 75~79 Pacific Highway
ULLADULLA	Johnston Holden - 150 Princes Highway
WAGGA	Wagga Motors Pty Ltd - 32 Dobney Avenue
WALCHA	Bowden's Garage Pty Ltd - Derby Street
WALGETT	Walgett Garage Pty Ltd - 81 Wee Waa Street
WALLA WALLA	D.E. Lieschke & Son Pty Ltd - Commercial Street
WARIALDA	Roger Moore - Hope Street
WARILLA	Wilson's Warilla Pty Ltd - 29 Shellharbour Road
WARREN	Fuller Bros - Dubbo Street
WEE WAA	Allan Cooper Holden - Rose Street
WELLINGTON	Gersbach's Garage Pty Ltd - 92 Lee Street
WEST WYALONG	West Wyalong Motors - 183 Main Street
WOLLONGONG	Dwyers City Holden - 31~33 Crown Street
WYONG	Barry Robertson Holden - 172 Pacific Highway
YASS	Bill Nesbitt Holden - 221 Comur Street
YOUNG	Harden & Geelan Holden - 48 Boorowa Street

A.C.T.

BELCONNEN	Gerald Slaven Holden - Josephson Street
BRADDON	Beazley & Bruce Holden - 44 Mort Street
PHILLIP	Commonwealth Motors Pty Ltd - 158 Melrose Drive

N.T.

ALICE SPRINGS	Kittle Holden - Cnr Wills & Railway Terrace
DARWIN	Kerry Holden - 21~25 Stuart Highway
KATHERINE	Master Motors - 1130 Victoria Highway

Vic. Metropolitian

BERWICK	Barry Bourke Holden - 755 Princes Highway
BUNDOORA	Watson Holden - 413 Grimshaw Street
BURWOOD	Penfold Holden - 63 Burwood Highway
CAULFIELD	Booran Holden - 1049 Glenhuntly Road
CHELSEA	Harrison Holden - 370 Nepean Highway
CHELTENHAM	Booran Holden - 1212 Nepean Highway
DANDENONG	Daryl Shave Holden - 25 Lonsdale Street
ELSTERNWICK	Reg Hunt Holden - 77 Nepean Highway
ESSENDON	Preston Motors (Essendon) P/L - 205~211 Keilor Road
FAWKNER	Mantello Holden - 1263 Sydney Road
FERNTREE GULLY	Neilson Holden F.T.G. - 980 Burwood Highway
FOOTSCRAY	Alan Mance Holden - 435 Barkly Street
FRANKSTON	Noel Gould Holden - 140 Dandenong Road
GEELONG	R & B Smith Holden - 510 Moorabool Street
GEELONG	Winter & Taylor (Sales) P/L - 23 Cavendish Street
GLEN WAVERLEY	Geoff Brady Holden - 565~577 Springvale Road
HASTINGS	Westernport Holden - 2147 Flinders Road
LILYDALE	Noel Dight Holden - 344 Main Street
MORNINGTON	John Collins Holden - 976 Nepean Highway
OAKLEIGH	Garry & Warren Smith - 1575 Dandenong Road
PRESTON	Ralph D'Silva Holden - 573~603 High Street
RINGWOOD	Patterson Cheney Holden - 45~57 Maroondah Highway
SOUTH MELBOURNE	Patterson Cheney Holden - 168 Sturt Street
SOUTH YARRA	Penfold Holden - 681 Chapel Street
SUNSHINE	Kevin Dennis Holden - 272 Ballarat Road
WERRIBEE	Ballan Holden - 56 Princes Highway
WEST MELBOURNE	Reg Hunt Holden - 577 King Street

Vic. Country

ALEXANDRA	GK & JH Radford - 79 Greints Street
ARARAT	David Reid Motors - High Street
BAIRNSDALE	The Big Garage - 199 Main Street
BALLARAT	Peter Amor Motors - 2~26 Mair Street
BENALLA	Arnott's Motors - 88~90 Bridge Street
BENDIGO	Ron Poyser Holden - Cnr High & Myrtle Streets
BIRCHIP	R.L. Bales P/L - 38 Cumming Avenue
BOORT	Jaron Motors - 55 Godfrey Street
CAMPERDOWN	Camperdown Auto Parts - 96 Manifold Street
CASTERTON	Coxons Holden - 139 Henty Street
CHARLTON	K.V. Charlton - 70 High Street
COBRAM	Neville Mustica Motors - Murray Valley Hwy
COLAC	Parker Bros. Motor Co - 224 Murray Street
CORRYONG	Boers Motors - 88~90 Hanson Street
DAYLESFORD	K.R. Little - Vincent Street
DIMBOOLA	Westerfield Motors Pty Ltd - 64 Lloyd Street
DONALD	O.A. Shilton & Sons Pty Ltd - 5 Wood Street
ECHUCA	Echuca Motors - 148 Murray Valley Highway
EUROA	Croxford Holden - 41 Clifton Street
FOSTER	Ray Dower Motors - 78 Main Street

HAMILTON	Peter Sandow Motors Pty Ltd - 261 Gray Street
HOPETOUN	Hopetoun Motors - 78 Lascelles Street
HORSHAM	Ivan Morrow Motors Pty Ltd - 22 O'Callaghans Street
KANIVA	Kaniva Motors - 82 Commercial Street
KOOWEERUP	Chelfco Two Hundred & Two - Rossiter Road
KORUMBURRA	Peter Dunlevie Holden - 42 Commercial Street
KYABRAM	D'Alberto Holden - 60 McEwen Road
KYNETON	Mollison Motors Pty Ltd - 167 Mollison Street
LEONGATHA	Gleeson Holden - 37~43 Bair Street
MAFFRA	Knight Paterson Holden - Johnson Street
MANSFIELD	Christopher & Kirley Automotive Services - Early Street
MARYBOROUGH	Graham Jacka Holden - 35 Nolan Street
MILDURA	Stuart & Harrison (Sales) Pty Ltd - 24~32 Deakin Avenue
MORTLAKE	W. Christian (Mortlake) Pty Ltd - 107 Dunlop Street
MURRAYVILLE	Peers Motors - McKenzie Street
NATHALIA	BHB Motors - 6 Blake Street
NHILL	Ivan Morrow Motors Pty Ltd - 71~73 Nelson Street
NULLAWIL	Nullawil Motors & General Engineers - Calder Highway
ORBOST	Merlin Motors - Stanley Street
PORTLAND	Reynolds Holden - Henty Highway
QUAMBATOOK	Quambatook Auto Services - 32 Gutherie Street
ROCHESTER	Bruce Hocking Motors Pty Ltd - 71 Moore Street
ROBINVALE	Stuart & Harrison (Sales) Pty Ltd - cnr Herbert & George Sts
RUTHERGLEN	Jasper Bros Pty Ltd - 62 Main Street
SALE	Keith Boyd Holden - 273 York Street
SEALAKE	Paddy Smith Holden - Calder Highway
SEYMOUR	Neil Beer Holden - 49 Emily Street
SHEPPARTON	Parker Bros. Auto Co. - Benalla Road
STAWELL	Tonkin Motors - 71~73 Main Road
SWAN HILL	Swan Hill Holden - 94~102 Campbell Street
TALLANGATTA	Crispin Motors - 21 Towong Street
TIMBOON	Timboon Motors - Bailey Street
TRARALGON	Colin Watson Holden - Princes Highway
UNDERBOOL	A.J. Gloster & Sons - Cotter Street
WANGARATTA	Alan Capp (New Cars) Pty Ltd - Tone Road
WARBURTON	Col McKenzie Holden - Main Street
WARRACKNABEAL	Amor Motors Aubrey Truck Sales - 33 Woolcock Street
WARRAGUL	Vin Rowe Holden - 3 Endeavour Street
WARRNAMBOOL	Callaghan Motors Pty Ltd - 133~137 Fairy Street
WONTHAGGI	J.P. Holden - 2 Murray Street
YARRAM	Graham Helleren Motors Pty Ltd - Bland Street
YARRAWONGA	Pigdons Pty Ltd - Belmore Street

Tas.

BURNIE	Motors Burnie - 84~89 Marine Terrace
DEVONPORT	Motors Devonport - Victoria Parade
HOBART	Motors Pty Ltd - 179 MacQuarie Street
KING ISLAND	King Island Motors Pty Ltd - Netherby Road, Currie
LAUNCESTON	Motors Launceston - 93~95 Elizabeth Street
SMITHTON	Motors Smithton - Cnr Nelson & Gibson Street
ULVERSTONE	Motors Ulverston - 97~101 Reibey Street

Qld. Metropolitian

ALBION	Bill Harrison Car Sales - Frodsham Street & Crosby Road
ASPLEY	Zupps Aspley Pty Ltd - 1442 Gympie Road
CAPALABA	Oldfield Holden - 103 Redland Bay Road
INDOOROOPILLY	Westpoint Holden - 440 Moggill Road
IPSWICH	Ross Llewellyn Holden - 246 Brisbane Road
MOOROOKA	John Sivyer Holden - 1060 Ipswich Road
MT. GRAVATT	Zupps Motors Pty Ltd - 1310 Logan Road
NEWSTEAD	Eagers Retail Pty Ltd - 95 Breakfast Creek Road
NUNDAH	Eagers (Northside) - 1319 Sandgate Road
PETRIE	Petrie Holden - 1059 Gympie Road
REDCLIFFE	Village Holden - 425 Elizabeth Avenue
SPRINGWOOD	Motorama Holden - 3455 Pacific Highway
WINDSOR	Leach Holden - 143 Newmarket Road
WOOLLOONGABBA	Armstrong Holden - 73 Ipswich Road
WYNNUM	Doug Barton Holden - 200 Tingal Road

Qld. Country

ATHERTON	Redding Motors Pty Ltd - 2 Cook Street
AYR	Honeycombes Sales & Service - 213~217 Queen Street
BEAUDESERT	Lawson Holden - 57 Brisbane Street
BOWEN	McDermott Holden - 98 Herbert Street
BUNDABERG	Ross Gray Holden - Takalvan Street
CABOOLTURE	Beecham Holden - Bribie Island Road
CAIRNS	Ireland Holden - 227~233 Mulgrave Road
CALOUNDRA	Allan Scott Holden - Caloundra Road
CHARLEVILLE	Alan Dobbin Holden - 129 Alfred Street
CHARTERS TOWERS	Peters Holden - 57 Mosman Street
CHINCHILLA	Ainsworth Motors & Machinery Pty Ltd - 55 Chinchilla Street
CLONCURRY	Cloncurry Motors - 59 Scarr Street
CROWS NEST	Dennis Nissen Motors - 14 William Street
DALBY	Johnson's Holden - 36 Drayton Street
EMERALD	Orion Agriculture Supplies Pty Ltd - Clermont Street
GATTON	Gatton Auto Centre - 67 Railway Street
GLADSTONE	Andersons Auto City - 56 Yarroon Street
GYMPIE	Madills - 35 Mellor Street
INGHAM	Origlasso Motors - 99 Lannercost Street
INNISFAIL	I.C. Taylor Pty Ltd - 117 Edith Street
JULIA CREEK	Julia Creek Motors Pty Ltd - Burke Street
KILCOY	Hobart's Garage - 58 Mary Street
KINGAROY	John Dundas Pty Ltd - 38 King Street
LAIDLEY	Buhse's Garage Pty Ltd - 5 Spicer Street
LONGREACH	Longreach Motors - 33 Swan Street
MACKAY	Pioneer Holden - Cnr Gordon & Wellington Streets
MAROOCHYDORE	Sunco Holden - Wises Road
MARYBOROUGH	Whitaker Holden - 109~111 March Street
MOUNT ISA	Barkly Motors Pty Ltd - Marian Street
MURGON	Clifton Motors - McAllister Street
NAMBOUR	Kallenbach Motors - 139 Howard Street
NANANGO	Nanango Motors Pty Ltd - 72~74 Drayton Street
NOOSA	Madills - 52 Mary Street

NOOSA HEADS	Gilbert Motors - Cnr Noosa & Coral Tree Roads
PROSERPINE	Crossley Car Whitsunday Pty Ltd - 162~164 Main Street
QUILPIE	Quality Motors - Boonkai Street
ROCKHAMPTON	Lawrence's - 327 Richardson Road
ROMA	Maranoa Multi Agencies - Bowen Street
SOUTHPORT	Lockhart Holden - Cnr Nerang Road & Olsen Avenue
SPRINGSURE	Springsure Motors - Eclipse Street
ST. GEORGE	Halpin Motors - 39~41 Grey Street
STANTHORPE	Central Motors - 42 Maryland Street
TOOWOOMBA	Toowoomba Holden - Cnr James & Hume Streets
TOWNSVILLE	Tony Ireland Holden - 87~91 Charters Towers Road
TULLY	Island Coast Holden - 12 Richardson Street
WARWICK	Deighton Motors Pty Ltd - Grafton Street

S.A. Metropolitian

ADELAIDE	City Holden - 223 Grenfell Street
ELIZABETH	Peter Page Holden - Elizabeth Way
MALVERN	Claridge Holden - 361~367 Unley Road
PORT ADELAIDE	Smiths of Port Adelaide - 271 Commercial Road
MORPHETT VALE	Southgate Holden - 49~59 Main South Road
SOMERTON PARK	Hamilton Holden - 278~288 Brighton Road
THEBARTON	Metro Holden - 1 Port Road
VALLEY VIEW	Plaza Holden - 817~839 North East Road

S.A. Country

BALAKLAVA	Balaklava Motors - 4 Wallace Street
BERRI	Rosenthal Bros Pty Ltd - Vaughan Terrace
CEDUNA	Beck Motors Pty Ltd - Poynton Street
CLARE	Brian Holmes Holden - 7 Old North Road
CLEVE	Herbert Motors Pty Ltd - Rudall Road
CRYSTAL BROOK	Newitts Crystal Brook - 26 Brandis Street
CUMMINS	Trigg & Wedd - 3 Umlauf Street
GAWLER	Steinhage Holden - Cnr Murray & Bridge Sts
KADINA	J.H. Rosewarne Pty Ltd - Graves Street
KEITH	Farmers Centre - McBain Street
KINGSCOTE	Roberts Motors - Telegraph Road
KINGSTON	Lecornu's Service Garage - Agnes Street
LOXTON	Flight Motors Pty Ltd - Bookpurnong Terrace
MAITLAND	Maitland Motors Pty Ltd - 58 Robert Street
MALLALA	Curnow's Garage Pty Ltd - Balaklava Road
MENINGIE	Peter Hood Holden - Cnr Princes Highway & Coonalpyn Road
MILLICENT	Dennis Cowling Holden - 98 George Street
MT. BARKER	Gilbert Motors - 57 Adelaide Road
MT. GAMBIER	O.G. Roberts & Co - Jubilee Highway West
MURRAY BRIDGE	Dutton Motors Pty Ltd - 7 Adelaide Road
NARACOORTE	Kingcraig Motors Pty Ltd - 158~164 Smith Street
PORT AUGUSTA	Butler's Mechanical Services - 2 Woodcock Street
PORT AUGUSTA	Ken Feltus Holden - 38 Stirling Road
PORT LINCOLN	City Motors - King Street
PORT PIRIE	Spencer Holden - 50 Ellen Street
RENMARK	Rosenthal Motors Pty Ltd - Ral Ral Avenue

STRATHALBYN	Gilbert Motors (Strathalbyn) Pty Ltd - High Street
TANUNDA	Hage & Co Pty Ltd - 50 Murray Street
VICTOR HARBOR	Southern Motors Holden - 5 Victoria Street
WAIKERIE	Riverside Holden - 6 Crush Terrace
WHYALLA	Ken Feltus Holden - 64 Essington Lewis Avenue
YANKALILLA	Martin Motors Pty Ltd - Main Street
YORKETOWN	Southway Holden - 7 Minalaton Road

W.A. Metropolitian

CANNINGTON	Brian Gardner Holden - 1308 Albany Hwy
FREMANTLE	Shacks Holden - 64 Queen Victoria Street
GOSNELLS	Lance Gibbons Holden - 2325 Albany Highway
MELVILLE	Melville Motors Pty Ltd - 532~540 Canning Highway
MIDLAND	Goldy Holden - 161 Great Eastern Highway
MORLEY	Metro Motors - 212 Walter Road
NAVAL BASE	Shacks Cockburn - 15 Rockingham Road
OSBORNE PARK	North City Holden - Cnr Scarborough Beach Rd & Harborne St
PERTH	City Motors - 505 Newcastle Street
VICTORIA PARK	Young's Holden - 529 Albany Highway
WANNEROO	Phoenix Holden - 5 Berriman Drive

W.A. Country

ALBANY	Manley Stanwell Holden - 92~98 Earl Street
BRIDGETOWN	Kordics Bridgetown - Hampton Street
BROOKTON	Coote Motors - Robinson Road
BROOME	Norwest Holden - McPherson Street
BUNBURY	Bunbury Holden - 27 Denning Road
BUSSELTON	Fennessy Holden - 2~4 Bussell Hwy
CARNAMAH	T & H Walton Stores Pty Ltd - Robertson Street
CARNARVON	North West Autos - 175 Robinson Street
COLLIE	Station Motors - 102 Throssell Street
CORRIGIN	Farmpower - Kunjin Road
CRANBROOK	Cranbrook Motors - 11~13 Gathorne Street
DALWALLINU	Reid & Inglis - Johnson Street
ESPERANCE	Dempster Holden - Norseman Road
GERALDTON	Youngs Motors - Cathedral Avenue
GNOWANGERUP	G.S. Hendry & Co Pty Ltd - Yougenup Street
HARVEY	Stockman Holden - 111 Uduc Road
KALGOORLIE	Kyle Motors - 114 Boulder Road
KATANNING	Edwards Holden - 159 Clive Street
KELLERBERRIN	Dowding Motors - 1 Mitchell Street
MANDURAH	Mandurah Holden - 283 Pinjarra Rd
MANJIMUP	Manjimup Automotive Services - Pritchard Street
MERREDIN	Carson's of Merredin - 112 Barrack Street
MOORA	Frank Lewis Holden - Gardiner Street
NAREMBEEN	Aquip Machinery - 20 Churchill Avenue
NARROGIN	Marley White & Co - Federal Street
NORTHAM	Withnell Motors - 58 Fitzgerald Street
WAGIN	Marley White & Co - Tudor Street
WONGAN HILLS	Agro Machinery Pty Ltd - Fenton Street
WYALKATCHEM	J.S. Rimmer & Sons - Railway Terrace

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, the I-GM Customer Assistance office is at your disposal.

The I-GM Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 644 6666. Outside the Melbourne Metropolitan area, the number is 1800 032 608.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden's Service Parts Operations on (03) 797 7341Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
I-GM Customer Assistance Services
PO Box 107
Port Melbourne, 3207.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address
- Telephone numbers, both private & Business
- Servicing Dealership's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.)
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

Chapter 6

Basic Maintenance

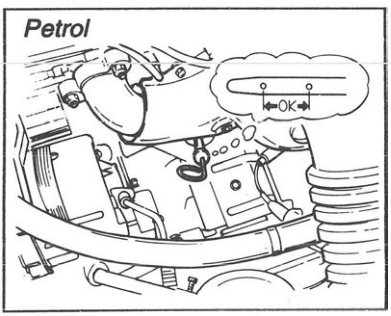
Page

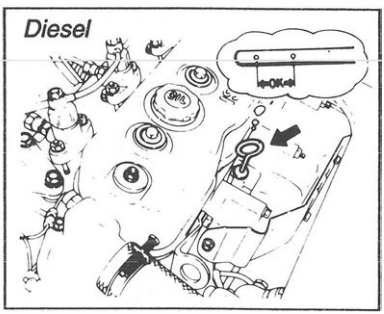
6-1 Engine oil level check
6-2 Engine oil consumption notes
6-3 Engine coolant level check
6-4 Automatic transmission fluid level check
6-5 Washer fluid level check
6-5 Power steering fluid level check
6-6 Brake fluid level check
6-6 Clutch Fluid level check
6-7 Tyre air pressure
6-8 Tyres (general)
6-10 Miscellaneous checks
6-10 Service manuals
6-11 Light bulb replacement
6-14 Cleaning the Vehicle
6-15 Fuses
6-15 Battery

ENGINE OIL LEVEL 6-1

It is the owner's responsibility to check the oil level weekly. The best time to check the engine oil level is when the oil is cold, such as first thing in the morning, before starting the engine.

To check the oil level accurately, the vehicle must be on level ground.





Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it.

The oil level should be maintained between the two dimples, neither going above the full mark nor under the low mark. Remember to reinsert the dipstick firmly after taking the reading.

★ **Petrol** engines use SG or SH grade engine oil 20W/50 for normal use. For prolonged use in snow areas, the use of 15W/40 is recommended.

★ **Diesel** engines use CD or CE grade engine oil SAE30 (single grade) or 15W/40 (multigrade)

To add oil, turn the oil cap on top of the engine anti-clockwise and remove. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil, if now correct, screw the cap back on tightly and replace the dipstick.

NOTE: Non-detergent, recycled, reclaimed and other low quality oils are specifically not recommended. The use of break-in oils, tune-up compounds, friction-reducing compounds and other supplemental additives are not recommended; their use will only increase operating costs.

Every internal combustion engine uses a certain amount of oil, especially during the running-in period. Your engine is dependant on oil to lubricate the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine, apart from mechanical malfunctions such as worn pistons, rings, valve stems and guides. These factors are: the way in which the vehicle is operated, the quality and grade of oil, the oil level, and dilution of the oil.

OPERATION OF THE VEHICLE
Sustained high engine speeds will increase oil consumption because higher speeds increase engine temperature which lowers oil viscosity thus allowing more oil to reach the combustion chamber. Towing a heavy load will also result in increased oil consumption due to increased engine temperature and hence lower oil viscosity.

It is recommended that heavy load towing be done only after the vehicle has been "run-in".

QUALITY AND GRADE OF OIL
Oil viscosity is a significant factor in oil consumption, therefore if you use an oil which is too "thin" (low viscosity) your oil consumption will increase.

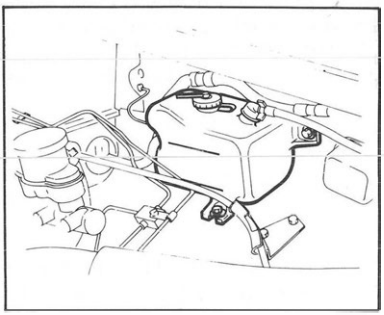
OIL LEVEL
Maintaining a proper oil level is also an important factor in controlling oil consumption. An overfull crankcase allows the reciprocating parts of an engine to splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

DILUTION
Probably the most prevalent complaint of oil consumption comes from the motorist whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 kms of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

After taking into account the above factors, if you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 kms.

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container, called the surge tank.

When the engine is cold the coolant level should be at or above the minimum mark on the surge tank. After the vehicle has been driven and the engine is at normal operating temperature the level should be somewhere between half full and the maximum mark on the surge tank.



The LONG LIFE COOLANT in your vehicle conforms to Holden's specification number HN 2043. This can be purchased as:

M40236 (1 litre)
M40237 (4 litres)
M40238 (20 litres)

If the surge tank requires topping up, first premix a solution of 50% LONG LIFE COOLANT and 50% water. Flip up the cap on the top of the surge tank, add the premixed solution and secure the cap.

Failure to use the specific Holden's coolant or maintain the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily in the cooling system until the correct Holden's LONG LIFE COOLANT is obtained as soon as possible from the nearest Holden Dealer.

It should be noted that the specified LONG LIFE COOLANT contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This LONG LIFE COOLANT also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to -16 degrees Celcius, provided the correct concentration is maintained.

If you regularly have to top up the surge tank you should see your Holden Dealer for a cooling system check.

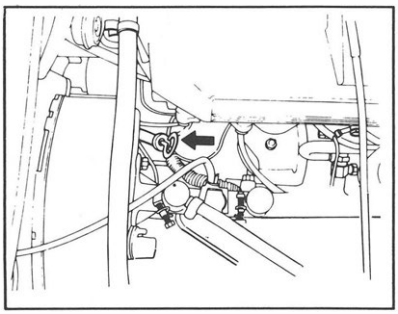
CAUTION

CORROSION INHIBITORS AND ANTI-FREEZE FLUIDS ARE POISONOUS. USE EXTREME CARE WHEN HANDLING. IF SWALLOWED SEEK MEDICAL ATTENTION.

Refer to page 4-7 if engine overheats.

If your vehicle is fitted with an automatic transmission, the level should be checked weekly, by looking at the fluid level on the dipstick. Dirt in the transmission can cause breakdowns, so be careful when checking or adding fluid.

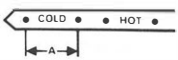
NOTE: If fluid has to be added often, there may be a problem or leak - and you should see your Holden Dealer.



Fluid level - cold check

The procedure for checking a cold transmission is as follows:

1. Vehicle to be parked on level surface.
2. Apply the park brake and place the shift lever in PARK. DO NOT MOVE THROUGH RANGES.
3. Start the engine.
4. Check the fluid level. This check must be performed after the engine has been allowed to idle for one minute and not longer than two minutes. To check the level, withdraw the dipstick, wipe it clean, insert it as far as it will go and then remove again. The correct level is between the two "cold" marks (A).

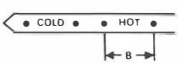


If adding fluid, use only DEXRON®11E AUTOMATIC TRANSMISSION FLUID. Add the fluid in the same opening as the dipstick is stored in and wait one minute for the fluid to settle. Again check the level with the dipstick and add further oil if necessary. Remember to always replace the dipstick.

Fluid level - hot check

To check the fluid level when the transmission is warmed up to normal operating temperature the following procedure should be used.

1. Park the vehicle on level surface and leave engine idling.
2. Move the shift lever through each position from "P" to "L", then return the lever to "P" and leave the engine idling.
3. To check the level, withdraw the dipstick, wipe it clean, reinsert it as far as it will go and then remove it. The correct level is between the two "hot" marks (B).



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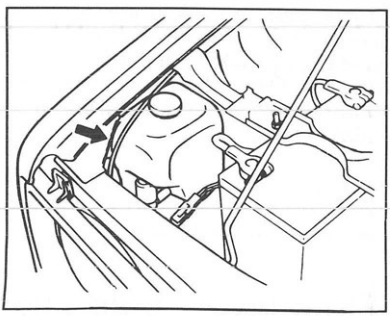
Washer fluid



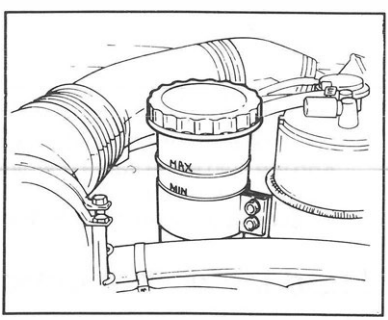
The washer fluid is constantly used, so the level should be checked weekly and topped up as required.

Maintain the fluid at the level indicated on the outside of the container.

For a crystal clear windscreen, the correct amount of Optikleen (part no. M39826) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured.

Power steering (where fitted)

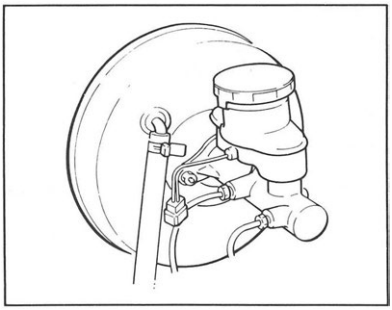


The level should be checked after the vehicle has been driven for a while, so that the fluid is warm. A convenient time to do this is when stopping for petrol.

The level should be maintained between the level markings on the outside of the reservoir.

If fluid needs to be added, use DEXRON®11E. Do not fill over the maximum level and remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer to have the power steering system checked.

Brake fluid

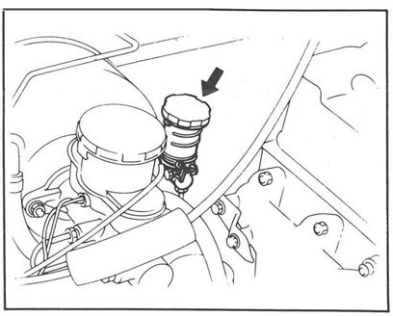


The brake fluid level in the master cylinder should be checked regularly in conjunction with checking the oil and coolant levels. The fluid level, visible through the "see through" master cylinder should be maintained between the level markings on the master cylinder. If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture which in turn lowers the boiling point of the fluid as well as increasing the risk of corrosion of brake components.

If fluid needs to be added, unscrew and lift off the top cover. Top up with heavy duty brake fluid which meets Holden's specification no. HN 1796. This can be purchased as Holden's part no. 92026651. Remember to secure the cap.

If the master cylinder required constant topping up it could indicate that a malfunction exists in which case it should immediately be brought to the attention of your Holden Dealer.

Clutch fluid

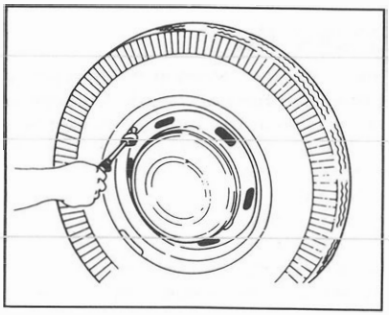


The clutch fluid level should be checked weekly. The level should be maintained between the minimum and maximum markings.

The same fluid is used for both the brake system and the clutch system. So, if fluid needs to be added use heavy duty brake fluid meeting Holden's specification no HN 1796. This can be purchased as part no. 92026651.

If you often need to add fluid, see your Holden Dealer to have the clutch system checked.

Tyre air pressure



Checking the air pressure of your tyres (including the spare) ensures your SAFETY, as well as reducing fuel consumption and increasing the life of your tyres.

Make sure your vehicle will handle at it's best - CHECK THE PRESSURES WEEKLY. For constant long distance or rough road travelling, daily checking is recommended.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the TYRES ARE COLD (stationary for over 3 hours). If they must be checked when warm/hot, allow pressure to read 10% above that recommended.

MODEL	TYRE	LOAD	PRESSURES (kPa)	
			FRONT	REAR
4WD	205R16 104Q	Up to 2 passengers	220	210
		Up to maximum load	240	270 #
	205R16LT 6PR	Up to 2 passengers	220	210
		Up to maximum load	240	300
2WD	185R14-8PR LT	Up to 2 passengers	220	220
		Up to maximum load	220	450

add 20 kPa to the rear for high speed driving (consistently over 140 km/h)

Always use a TYRE PRESSURE GAUGE to check the tyres - simply looking at the tyres is not sufficient.

Remember to put back any valve DUST CAPS or EXTENSIONS if so equipped. This stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the TYRE TREAD, for stones or abnormal wear.

To maximise the protection of tyres on vehicles operating for prolonged times over rough roads (particularly in outback conditions) it is recommended that the cold tyre inflation pressure recommended for maximum load condition, as shown.

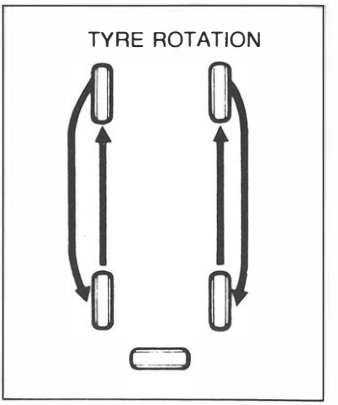
Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to "pull" to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

If you have any reason to suspect that either of the above problems exists then have a wheel alignment and balance check done by your Holden Dealer.

Tyre inspection and rotation



Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition will be checked for you when you take your vehicle to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated, it is recommended that the balance be checked at the same time. However if no abnormal or uneven wear is evident, tyres need not be rotated.

Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your vehicle for the purpose you require should be referred to your Holden Dealer.

Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your vehicle.

NOTE: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may void your warranty as well as your motor vehicle insurance policy.

Tyre traction

CAUTION: A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practises and vehicle speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydro-planing, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speed levels during rainstorms or when roads are slushy and if the road has standing water or puddles.
2. Replace tyres when tread wear indicators are visible.
3. Check that tyres are properly inflated.

Tyre replacement and repair

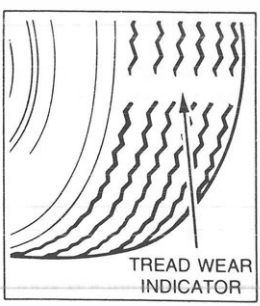
CAUTION: Do not mix different tyre construction types, such as radial and cross ply, on your vehicle except in emergencies, because your vehicle's handling could be affected and may result in loss of control.

When replacing tyres you should use the same size, load rating and construction type as the original tyres on your vehicle. Refer to tyre placard inside glove box for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, vehicle ground clearance and tyre or tyre chain clearance to the body or chassis.

Tyres with a higher speed rating and/or with a maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:



1. The tyres are worn to the point where the tread indicators appear or the cord or fabric is showing. The original equipment tyres fitted to your vehicle incorporate built-in tread wear indicators which assist in determining when the tyres have worn to the point of needing replacement (see illustration). In the interest of safety, replacement should not be delayed.
2. The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

If in doubt about the extent of damage to the tyre have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacture's recommendations.

CAUTION: Tyres which have been repaired or retreaded will not be able to be operated safely at high speeds therefore use is not recommended.

Miscellaneous checks

When carrying out the checks already described you should also inspect the engine for oil leaks. If leaks are evident you should consult your Holden Dealer.

The following checks should also be regularly done to ensure proper safety and dependability of your vehicle.

CHECK:

that all exterior lights are working and that their appropriate interior indicators light up when in operation.

mirrors and glass are clean and not scratched.

automatic transmission T-bar indicator correctly lines up next to the gear selected.

the aim of water on the windscreen and condition of the wipers

horn works.

all seat belt condition and operation (give it a sharp tug to make sure that it will 'lock' if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

Service manuals

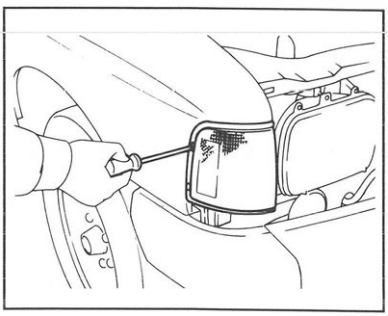
I-GM also publishes various service manuals which are available from your Holden Dealer.

Headlights

Proper aiming of the headlights is most important to assure correct illumination of the highway without blinding other motorists. Headlight aiming or replacement should be carried out by your Holden Dealer. The halogen bulbs have a capacity of 60/65 watts.

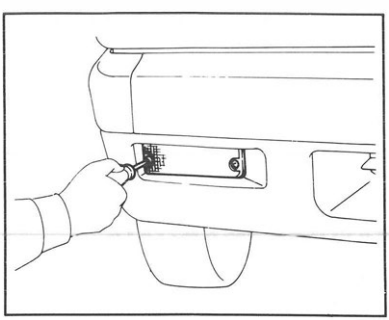
Clearance lights

Unscrew the screws securing the lens. The bulb has a capacity of 5 watts.



Front turn signal lights

Unscrew each of the two screws securing the lens. The bulbs have a capacity of 21 watts.

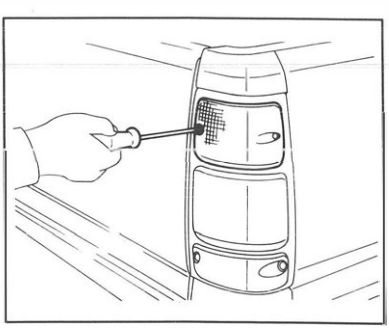


Rear combination lights.

Unscrew the screws securing the lens.

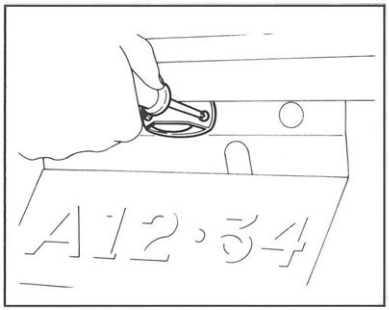
The bulbs have the following capacities:

Turn signal lights: 21 watts
Stop/tail: 21/5 watts
Back-up lights: 21 watts



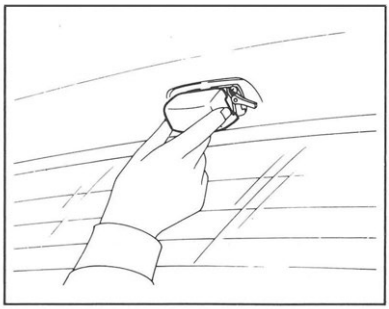
Licence plate lights

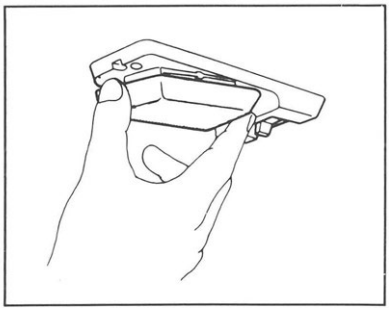
Unscrew the two screws securing the lens. The bulb has a capacity of 5 watts.



Interior lights

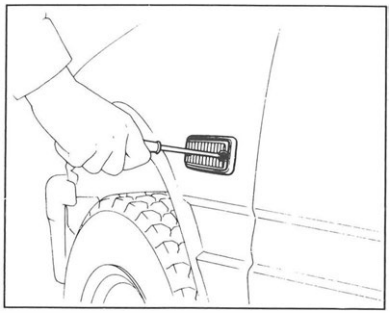
The lens can be pulled out by hand. The bulb has a capacity of 10w.





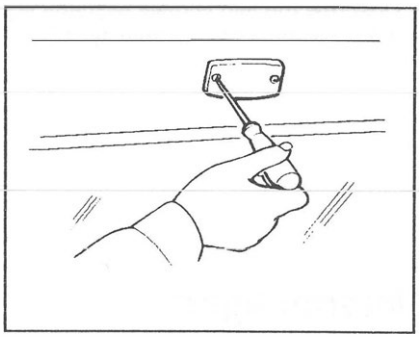
Side flasher lights

Unscrew the two screws securing the lens. The bulb has a capacity of 5 watts



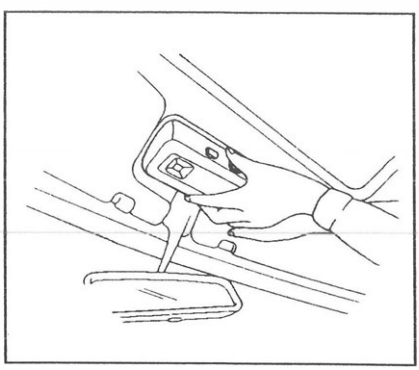
LS Door light

Remove the two screws and the lens. The bulb pulls straight out of the socket. The bulb has a capacity of 5 watts.



LS Reading light

Pull down the light assembly by hand. Remove the bulb by turning anti-clockwise. The bulb has a capacity of 5 watts.



The paint on your vehicle will stay bright and new-looking provided you wash and wax it regularly, using approved products. Weekly washing is recommended if the vehicle is being used constantly or if it is not parked under cover.

Before you wash the paintwork, thoroughly wash in and around the front and rear windows and check that door drain holes are clean. Hose off any heavy dirt on the glass, but leave final cleaning of the glass until last.

Underbody cleaning

The effects of salts and other corrosive materials from road surfaces can result in accelerated rusting and deterioration of underbody components such as brake and fuel lines, frame, underbody floor pan, exhaust system, brackets, parking brake cables. These corrosive effects, however, can be reduced by periodic hosing of the underbody with plain water whenever the vehicle is being washed. In geographical areas having a heavy concentration of corrosive materials it is recommended that the complete underbody be inspected and washed at least one each year, preferably after a winter's exposure. Particular attention should be given to cleaning out underbody members where dirt and other foreign materials may have collected.

Washing tips

Use either cold or warm water - preferably running.

Use clean chamois cloths, sponges or rags (old, clean linen is better than new material for glass).

Don't wash your vehicle in bright sunlight - it will streak.

Grease and oil can be removed with a little kerosene or white spirits. Flush with water afterwards.

If petrol is spilled during refilling, flush with water immediately.

Be sure that your cleaner, polish or wax is suitable, Holden's Wash & Wax from your Dealer is highly recommended.

Insect spots can be removed with a mixture of 220 grams of baking soda and 2 litres of water. Flush clean afterwards. New tyre look can be restored with Holden's Tyre Black from your Dealer.

Tarnished chrome responds well to Holden's Polishing Liquid.

Wiper blade cleaning

Much of the road scum thrown up onto the windscreen glass (causes smearing when the wipers are switched on) transfers onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass re-appears immediately the wiper blades are set in motion. The blades can be cleaned by simply lifting them off the windscreen glass and then using warm water and a recognised washing fluid.

IMPORTANT: Do not operate the wipers blades by hand as this may damage the wiper drive mechanism.

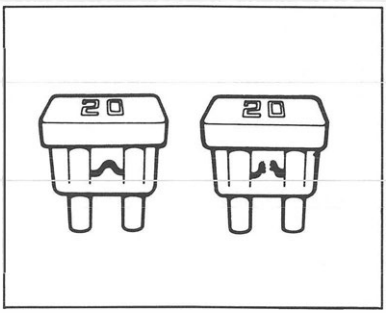
Should the wiper blades be frozen to the windscreen, it is imperative that they be lifted off and freed by hand before switching on the wipers.

FUSES

The fuse panel is located under the instrument panel on the driver's side. Additional fuses will also be found in a fuse box within the engine compartment, also on the driver's side.

If a fuse has blown out check to locate the cause of trouble and give the necessary service attention before replacing the fuse.

In the illustration, the fuse on the right shows a burnt out fuse.



Caution:

When replacing a fuse be sure to use a fuse of the specified amperage, as indicated on the fuse box panel cover. Never install a wire or similar for replacement as it may cause a fire hazard to the vehicle.

If the replaced fuse also burns out you should see your Holden Dealer.

BATTERY

The fluid level of the battery will be checked for you when you take your vehicle to be serviced by your Holden Dealer. If your vehicle is operated in hot temperatures or at constant high speed, the battery fluid level should be checked at least twice between the 6 month Dealer Service.

Each of the six cells must be individually checked. Use distilled water, as required, to keep the level between the upper and lower markings on the battery. **DO NOT OVER FILL.**

CAUTION:

Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor immediately.

Take care with all metal objects and tools including items you may wear (e.g. jewelry, ring and metal watchbands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.

When checking the battery level, make sure the engine is not running.

Chapter 7

Specifications & Emissions

Page

7-1 Engine Specifications
7-2 Transmission Specifications
7-2 Brake Specifications
7-2 Steering Specifications
7-2 Rear Axle Specifications
7-3 General Lubricants
7-3 Dimensions
7-4 Emission Control Information
7-5 Identification Plates & Labels

ENGINE		PETROL 4ZE1	DIESEL - 4JBIT
DESCRIPTION		4 cylinder, overhead cam with electronic controlled fuel injection	4 cylinder turbo charged
Piston dispiacment		2,559 cc	2,771 cc
Compression ratio		8.6 : 1	17.5 : 1
Power, kW @ r.p.m.		88 @ 4,600	74 @ 3,800
Torque, Nm @ r.p.m.		201 @ 2,600	225 @ 2,300
Firing order		1, 3, 4, 2	
Injection pressure		-	185 kg / cm²
Injection or ignition timing		12°BTDC @ 900 r.p.m.	12°BTDC
Valve clear. (cold)	Intake	0.15 mm	0.40 mm
	Exhaust	0.25 mm	0.40 mm
Oil Specifications		SG or SH grade oil. For normal use, 20W/50 viscosity is recommended. For prolonged use in snow areas, the use of 15W/40 is recommended.	CD or CE grade diesel engine oil SAE 30 (single grade), or 15W/40 (multigrade)
Oil capacity inc. filter		3.9 - 4.5 litres	5.5 - 6.0 litres
Coolant capacity		9 litres	9.5 litres
Coolant specification		½ water and ½ Long Life Coolant, conforming to Holden's specification number HN 2043, part number M40236 (1 litre) or M40307 (5 litres)	

PETROL ENGINES ONLY: Engine tune-up data, including spark plug gap, timing and idle speed will be found on the Emission Label, inside the engine compartment of your vehicle. Refer page 7-4 for exact location.

NOTE: Non-detergent, recycled, reclaimed and other low quality oils are specifically not recommended. The use of break-in oils, tune-up compounds, friction-reducing compounds and other supplemental additives are NOT RECOMMENDED; their use will not only increase operating costs, but will be detrimental to the operation of your vehicle.

Transmission and transfer case		MUA5C, manual with 2.8 ltr turbo diesel engine or 2.6 litre petrol engine	AW03-72L, auto with 2.6 litre petrol engine
Gear ratio : 1	1st	3.767	2.826
	2nd	2.248	1.493
	3rd	1.404	1.000
	4th	1.000	0.688
	5th	0.809	-
	Rev	3.873	2.703
	High	1.000	-
	Low	2.283	-
Trans oil capacity		2.95 litres	6.5 litres
Transfer case oil capacity		1.45 litres	-
Oil specification		Use same oil as used in engine, or SAE 5W-30	Dexron® II E AutomaticTransmission Fluid

Brakes	Description	Front wheel disc. Rear wheel drum, incorporating park brake acting on rear wheels
	Fluid type	Heavy duty hydraulic brake fluid to Holden's HN 1796

Steering	Manual	Fluid capacity = 0.4 litres Fluid type = Gear oil GL5 grade
	Power	Fluid capacity = 1.0 litre Fluid type = Dexron® IIE Automatic Transmission Fluid

Axles	4WD, front and rear	Description Ratio Fluid type Fluid capacity Viscosity	Limited Slip Diff (rear); Banjo (front) 4.555:1 LSD gear oil GL5 grade 1.8 litres (rear); 1.5 litres (front) Use SAE 85W/140
	2WD, rear	Description Ratios Fluid type Fluid capacity Viscosity	Banjo, semi floating 2.6 litre petrol engine = 4.300 : 1 2.8 litre diesel engine = 4.300 : 1 Gear oil GL5 grade 4ZE1& 4JB1T = 1.8 litres Use SAE 85W/140

General lubricants

Brake and clutch pedal pivots	Grease to Holden's HN 1147 specification
Wheel bearings	Wheel bearing grease to Holden's HN 1227 specification
Chassis, park brake, universal joint and propeller shaft sliding yoke	Water resistant EP type chassis lubricant to Holden's HN 1271 specification

Dimensions

Wheel base	3,025 mm	
Wheel track	Front 2WD Front 4WD Rear	1,425 mm 1,390 mm 1,400 mm
Minimum ground clearance	2WD 4WD	185 mm 225 mm

Battery

2.6 litre petrol engine : 50D20R, 12 volt, 50 amp hours

2.8 litre diesel engine : 95D31R, 12 volt, 80 amp hours

Refer page 3-10 for vehicle mass (weight)

During the combustion process in an automotive engine, some of the fuel (hydrocarbons) fail to burn and are discharged into the engine crankcase or exhaust system. Additionally, hydrocarbons are emitted into the atmosphere through evaporation of petrol vapours from the fuel tank. Of the total hydrocarbons coming from uncontrolled automobiles, about 25% are emitted from the crankcase, 20% from the fuel system and 55% from the engine exhaust.

In addition to hydrocarbons, carbon monoxide and oxides of nitrogen are also formed during the combustion process. These are also discharged into the exhaust system.

There are three areas from which pollutants are emitted:

(a) Exhaust System

(b) Crankcase

(c) Fuel System

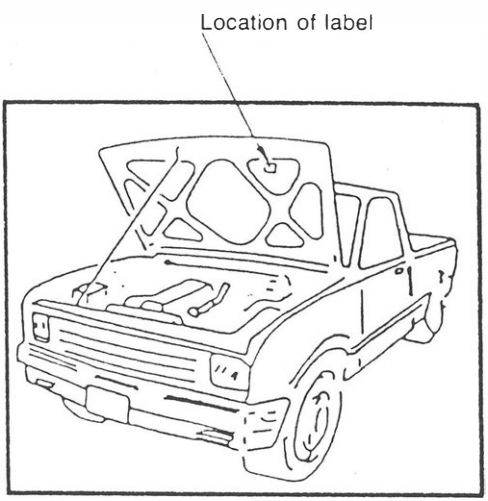
A number of controls have been installed by I-GM to control the amount of pollutants emitted from your new vehicle.

It is recommended that any replacement parts used for required maintenance services or for the repair of emission control systems be new parts. Use of replacement parts which are not of equivalent quality may impair the effectiveness of such systems, and may adversely affect your Vehicle Warranty.

Emission Control Information Label

The label is located on the inside of the bonnet.

Information on this label includes ignition timing, idle speed and spark plug gap settings.

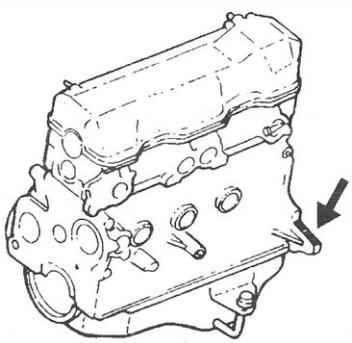


Engine number location

Petrol

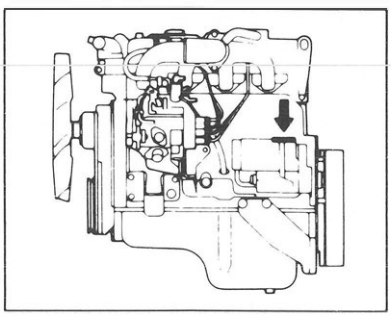
The engine number for petrol engines is located in two places:

- on a plate in front of the radiator (refer illustration on page 7-6)
- stamped on the protrusion at the rear, passengers side of the cylinder block (refer illustration below)



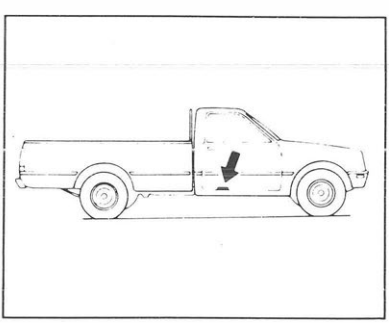
Diesel

It is stamped on the passenger rear side of the engine block.



Tyre pressure placard

The tyre placard is located on the driver's door pillar.



Emission label

Refer page 7-4.

V.I.N. (frame)

It is stamped on the, right hand side of the chassis side member, under the driver's door.

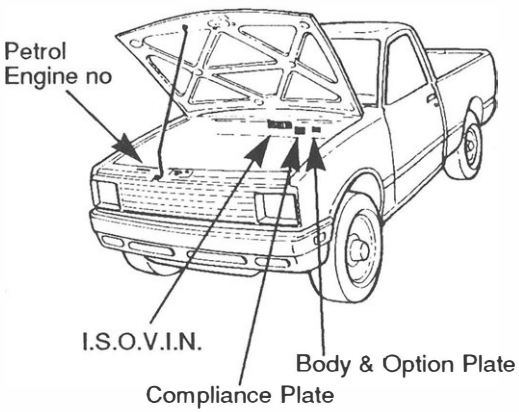
I.S.O.V.I.N. plate

JAA T FR 17 H R 8162466

- 8162466 — Sequential production serial number
- R — Model year code: L=1990, M=1991 N=1992, P=1993, R=1994, S=1995
- H — Wheel Base: H = Long
- 17 — Engine: 17 = 2.6 ltr petrol; 55 = 2.8 ltr diesel
- FR — Drive: R = 2WD; S = 4WD
- T — Model code
- JAA — Manufacturer Identifier: JAA = Light Duty Truck

Safety compliance plate

Shown on the plate is the Approval number, category, Manufacturer, Model name and Model code, G.V.M. (Gross Vehicle Mass), Seating capacity, Month and Year of Manufacture, and the V.I.N. (Vehicle Identification Number).



Body & option identification plate

The plate shows body style, body serial number, paint and trim colour combination, paint number, engine transmissions, axle ratio options and built date.

The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined or moved from the production line.

Chapter 8

Service/Maintenance Schedule

Page

8-1	When to have the service carried out
8-2	Extreme operating conditions
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	- what is actually performed at each service
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8-8	Intermediate oil change record
8-10	10,000 km or 6 months Service
8-12	20,000 km or 12 months Service
8-14	30,000 km or 18 months Service
8-16	40,000 km or 24 months Service
8-18	50,000 km or 30 months Service
8-20	60,000 km or 36 months Service
8-22	70,000 km or 42 months Service
8-24	80,000 km or 48 months Service
8-26	90,000 km or 54 months Service
8-28	100,000 km or 60 months Service
8-30	110,000 km or 66 months Service
8-32	120,000 km or 72 months Service
8-34	Notice of Name/Address/Ownership Change

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

5,000 km	- 3 month
10,000 km	- 6 month
20,000 km	- 12 month
30,000 km	- 18 month
40,000 km	- 24 month
50,000 km	- 30 month
60,000 km	- 36 month
70,000 km	- 42 month
80,000 km	- 48 month
90,000 km	- 54 month
100,000 km	- 60 month
110,000 km	- 66 month
120,000 km	- 72 month

The three month (5,000 kilometres) service will be performed "labour free" by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer.

Your Dealer will supply the necessary Letter of Introduction on request.

It is the owner's responsibility to have the engine oil changed between the regular service interval of 10,000 km or 6 months, refer page 8-8.

The services shown in this schedule between 10,000 and 120,000 are to be performed after 120,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carried out by an Authorised Holden Dealer or service Dealer may void your new Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" on page 5-1, so that you are conversant with your entitlements.

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important as it will not only assist in the determination of Warranty Claims, but enhance the value of the vehicle whenever resale is contemplated.

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 kilometres under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change engine oil every 2,500 km	A		C	D	E
Replace engine oil filter every 5,000 km	A		C	D	
Inspect universal joints and sleeve for wear every 10,000 km		B			
Change manual transmission and transfer case oil every 20,000 km		B			E
Change automatic transmission and transfer case oil every 30,000 km	A	B	C		E
Change differential oil every 20,000 km	A	B	C		
Change air cleaner element every 5,000 km			C		
Inspect rear brake linings every 10,000 km	A	B	C		

A = Repeated short trips

B = Driving on rough roads

C= Driving on dusty roads

D = Driving in extremely cold weather and/or salted roads

E = Towing

Use odometer reading or months, whichever occurs first	x1,000 km	5	10	20	30	40	50	60	70	80	90	100	110	120
	or months	3	6	12	18	24	30	36	42	48	54	60	66	72

UNDERHOOD OPERATIONS

Change engine oil (every 5,000 km).	x	x	x	x	x	x	x	x	x	x	x	x	x
Check fluid levels in engine compartment: brake, washer, clutch, battery electrolyte, auto trans, power steering.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check coolant level and inhibitor %, use tester.	x	x	x	x	x	x	x	x	x	x	x	x	x
Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.	x	x	x	x	x	x	x	x	x	x	x	x	x
P - check timing belt for cracks, wear and tension.		x	x	x	x	x	x	x	x	x	x	x	x
Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks e.g. oil, brake, coolant, fuel, clutch.		x	x	x	x	x	x	x	x	x	x	x	x
Inspect air cleaner element for restriction and condition. Replace if necessary.	x	x	x	x	x	x	x	x	x	x	x	x	x
D - Check injection pressure and spraying condition.						x					x		
D - Check injection timing.		x		x		x		x		x		x	
P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.			x		x		x		x		x		x
P - EGR system only. Clean valve and manifold opening.			x		x		x		x		x		x
Serviceable PCV valves - dismantle, clean and re-assemble. Disposable PCV valves - test and replace if necessary.					x		x		x		x		x
Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.			x		x		x		x		x		x
P - Check tightness of cylinder head bolts.	x		x		x		x		x		x		x
Adjust valve clearance.	x		x		x		x		x		x		x
Check and adjust if necessary engine idle speed.			x		x		x		x		x		x
P- Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as well as condition. Remove canister and check for cracks or damage.					x		x		x		x		x
Check wiring harness and terminals for looseness or damage.	x	x	x	x	x	x	x	x	x	x	x	x	x
Replace fuel filter.			x		x		x		x		x		x

Use odometer reading or months, whichever occurs first	x1,000 km	5	10	20	30	40	50	60	70	80	90	100	110	120
	or months	3	6	12	18	24	30	36	42	48	54	60	66	72

UNDER VEHICLE OPERATIONS

Change engine oil filter.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check manual transmission oil level.			x	x		x	x	x		x	x	x	
Change lubrication in manual transmission and transfer box.		x			x				x				x
Check front and rear axle oil levels.			x	x		x	x	x		x	x	x	
Change front and rear axle oil.		x			x				x				x
Lubricate front suspension and steering joints. Inspect for looseness and damage.	x	x	x	x	x	x	x	x	x	x	x	x	x
Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any defiencies, including loss of steering preload, for immediate rectifications.	x	x	x	x	x	x	x	x	x	x	x	x	x
Lubricate accelerator, transmission shift and clutch linkages as applicable.		x	x	x	x	x	x	x	x	x	x	x	x
Check parking brake operation and lubricate system. Adjust if necessary.		x	x	x	x	x	x	x	x	x	x	x	x
Inspect exhaust system and adjacent body areas for open seams or damage.		x	x	x	x	x	x	x	x	x	x	x	x
Inspect engine and transmission moutings.		x	x	x	x	x	x	x	x	x	x	x	x
Check and adjust clutch for operating rod free travel.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check operation of transmission shift linkage. Adjust if necessary.			x		x		x		x		x		x
Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.	x	x	x	x	x	x	x	x	x	x	x	x	x
Inspect brake pads and linings.			x		x		x		x		x		x
(4WD) Lubricate front locking hubs.			x				x				x		
Inspect front wheel bearings and check adjustment. Repack only if necessary.			x				x				x		
Repack front wheel bearings.					x				x				x
Check under vehicle for fluid leaks, inc. brake, fuel, clutch, transmission, shock absorbers and differential.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check under vehicle for damage or component looseness.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check propeller shaft U-joints and splines for wear.			x		x		x		x		x		x
Change power steering fluid.					x				x				x
Change brake fluid.					x				x				x

Use odometer reading or months, whichever occurs first	x1,000 km	5	10	20	30	40	50	60	70	80	90	100	110	120
	or months	3	6	12	18	24	30	36	42	48	54	60	66	72

INTERIOR VEHICLE OPERATIONS

Check operation of all warning indicators, ignition steering lock, brake and park lights and interior electrical items and controls. Check all internal lights.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.	x	x	x	x	x	x	x	x	x	x	x	x	x
Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check steering wheel free play.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check brake pedal travel and free play.	x	x	x	x	x	x	x	x	x	x	x	x	x

EXTERIOR VEHICLE OPERATIONS

Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or endgate regulator as required.	x	x	x	x	x	x	x	x	x	x	x	x	x
Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and tranmission shift pattern. Check wiper blade effectiveness.	x	x	x	x	x	x	x	x	x	x	x	x	x

SUGGESTED LABOUR TIME

Hours	-	1.3	3.1	1.2	3.5	1.2	3.1	1.2	3.5	1.2	3.1	1.2	3.5
Add if front wheel bearings repacked.	-	-	.5	-	-	-	.5	-	-	-	.5	-	-
Add for diesel engine.	-	.5	-	.5	-	1.6	-	.5	-	.5	-	.5	-
Subtract for diesel engine.	-	-	.5	-	.6	-	.6	-	.6	-	-	-	.6
Add for 4WD	-	-	.8	-	-	-	.8	-	-	-	.8	-	-

The owner will be charged for all lubricants and materials used plus labour at the times recommended above. The repair or replacement of any part found faulty during a service check and not covered by Holden's Warranty will be added to the charges. Where any deficiencies are noted, such items should be reported to the owner/operator so that the extra work can be authorised.

5,000km or 3 month Inspection and Adjustment

HOLDEN WISE
QUALITY SERVICE & PARTS

This coupon should not be removed until the vehicle is presented for service.

Owner's Name
Mr.
Mrs. .....
Miss.
Other.....

Address .....

Town & State ..... Postcode .....

Reg. no. ..... Engine no .....

I.S.O.V.I.N. ..... Model .....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

This vehicle has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's signature .....

This service will be carried out without charge to the owner. The owner will, however, be charged for any lubricants or parts used.

PTO

5,000km or 3month Service Validation

This vehicle has been thoroughly checked in accordance with the 5,000 km service.

Dealer .....

Service Manager's signature .....

Date ..... Odometer reading .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function.
	Check steering wheel free play.
	Check brake pedal travel and free play.

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

15,000 km or 9 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
25,000 km or 15 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
35,000 km or 21 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
45,000 km or 27 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
55,000 km or 33 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
65,000 km or 39 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
75,000 km or 45 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
85,000 km or 51 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
95,000 km or 57 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
105,000 km or 63 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
125,000 km or 69 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....

10,000 km or 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.3 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

10,000 km or 6 Month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services Performed:

.....

.....

.....

.....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment, inc. brake, washer, clutch, battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Change lubrication in manual transmission and transfer box.
	Change front and rear axle oils.
	Lubricate front suspension and steering joints.
	Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security.
	Notify owner of any deficiencies, including loss of steering preload, for immediate ectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls.
	Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection.
	Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

20,000 km or 12 months Service Coupon

8-12

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.1 hours to perform (add 0.5 hours if front wheel bearings repacked, subtract 0.5 hours for diesel engine, add 0.8 hours for 4WD)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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.....

Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening, replace if necessary.
	Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	Check wiring harness and terminals for looseness or damage.
	Replace fuel filter.

Additional Services Performed: .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

20,000 km or 12 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.
	Inspect front wheel bearings and check adjustment. Repack only if necessary.
	(4WD only) Lubricate front locking hubs.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

30,000 km or 18 months Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

30,000 km or 18 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment:. brake, washer, clutch, battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

40,000 km or 24 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.5 hours to perform (subtract 0.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening, replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and reassemble. Disposable PCV Valves - Test and replace if necessary.
	Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as well as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Replace fuel filter.

Additional Services Performed: .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

40,000 km or 24 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Change lubrication in manual transmission and transfer box.
	Change front and rear axle oils.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.
	Repack front wheel bearings.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.
	Change power steering fluid.
	Change brake fluid.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

50,000 km or 30 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 1.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch, battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection pressure and spraying condition.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

50,000 km or 30 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, inch. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating. ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

60,000 km or 36 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.1 hours to perform (add 0.5 hours if front wheel bearings repacked, subtract 0.6 hours for diesel engine, add 0.8 hours for 4WD).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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Signature.....Date.....

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

60,000 km or 36 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: inc. brake, washer, clutch battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening, replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and re-assemble. Disposable PCV Valves - Test and replace if necessary.
	Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as well as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Replace fuel filter.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.
	Inspect front wheel bearings and check adjustment. Repack only if necessary.
	(4WD only) Lubricate front locking hubs.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

70,000 km or 42 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch, battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

70,000 km or 42 Month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services Performed: .....

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

80,000 km or 48 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.5 hours to perform (subtract 0.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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Signature.....Date .....

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

80,000 km or 48 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening, replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and re-assemble. Disposable PCV Valves - Test and replace if necessary.
	Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as well as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Replace fuel filter.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Change lubrication in manual transmission and transfer box.
	Change front and rear axle oils.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.
	Repack front wheel bearings.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.
	Change power steering fluid.
	Change brake fluid.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

90,000 km or 54 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch, battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

90,000 km or 54 Month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services Performed:

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UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

100,000 km or 60 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.1 hours to perform (add 0.5 hours if front wheel bearings repacked, add 0.8 hours for 4WD).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection pressure and spraying condition.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening, replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and re-assemble. Disposable PCV Valves - Test and replace if necessary.
	Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as well as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Replace fuel filter.

Additional Services Performed: .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

100,000 km or 60 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.
	Inspect front wheel bearings and check adjustment. Repack only if necessary.
	(4WD only) Lubricate front locking hubs
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

110,000 km or 66 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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Signature .....Date .....

Additional Services Performed: .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

110,000 km or 66 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch, battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

120,000 km or 72 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.5 hours to perform (subtract 0.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

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Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check fluid levels in engine compartment: brake, washer, clutch battery electrolyte, auto transmission, power steering.
	Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening, replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and re-assemble. Disposable PCV Valves - Test and replace if necessary.
	Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as well as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Replace fuel filter.

Additional Services Performed: .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

120,000 km or 72 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Change lubrication in manual transmission and transfer box.
	Change front and rear axle oils.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.
	Repack front wheel bearings.
	Check under vehicle for fluid leaks, inc. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.
	Change power steering fluid.
	Change brake fluid.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilation and demisting system ducts are clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiper blade effectiveness.

To ensure continued interest in your vehicle, Holden's requests that owners who change their name or address and subsequent owners who purchase the vehicle fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. ..... Miss

Address .....

Town .....

State .....

Registration No. .....

Vehicle Identification Number (ISOVIN) .....

(Refer Chapter 7 for location of I.S.O.V.I.N.)

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. ..... Miss

Address .....

Town .....

State .....

Registration No. .....

Vehicle Identification Number (ISOVIN) .....

(Refer Chapter 7 for location of I.S.O.V.I.N.)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden's Motor Company
Box 548D, G.P.O.
Melbourne,
Victoria, 3001.

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden's Motor Company
Box 548D, G.P.O.
Melbourne,
Victoria, 3001.

To ensure continued interest in your vehicle, Holden's requests that owners who change their name or address and subsequent owners who purchase the vehicle fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss .....

Address .....

Town .....

State .....

Registration No. .....

Vehicle Identification Number (ISOVIN) .....

(Refer Chapter 7 for location of I.S.O.V.I.N.)

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PLEASE TICK ☑ APPROPRIATE SQUARE
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Vehicle Identification Number (ISOVIN) .....

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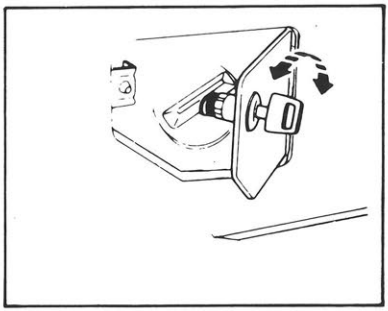
The vehicle is equipped with a lockable fuel filler door or cap which can be unlocked and unlocked with the ignition key.

After refuelling, check to be sure the fuel filler door (or cap) is locked securely.

Fuel tank capacity is as follows:

53 litres - S.W.B. single cab
- crew cab

75 litres - space cab
- L.W.B. single cab



Overfilling of the fuel tank can affect the evaporative Emission Control System.To avoid this, the following recommendations are made for both diesel and petrol engines:

1. Fuel tanks should always be filled at the intermediate or fast fill rate. After initial shut-off (or vent blow-back) no further fuel should be added. This retains the tank's ability to accommodate fuel expansion.

2. It is permissible to "trickle fill" fuel tanks where vehicles are to be driven for a distance of at least 50 kilometres shortly after the tank is filled.

Petrol engines

WARNING:

Petrol is extremely flammable and highly explosive under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refuelling. If petrol fumes are noticed while driving, the cause should be determined and corrected, without delay.

To avoid possible damage to the injectors, fuel system additives are not recommended in these vehicles.

The use of LPG is not recommended for these engines.

To reduce the exhaust pollutants in the atmosphere, your vehicle has been designed to operate on a good clean UNLEADED FUEL of at least 91 octane rating (Research Octane Number), as indicated by the label on the fuel cap.

To ensure that the correct fuel is used, your vehicle has been fitted with a fuel filler nozzle restrictor. This allows the thinner, UNLEADED fuel filler nozzle to open the hinged flap, so that fuel may be added to the fuel tank. The leaded fuel filler nozzle is wider and therefore cannot open the flap.

Diesel engines

Use a good quality diesel fuel of at least 47 cetane rating. Note, if the diesel fuel tank is run completely dry the fuel system must be "bled", refer page 4-12.

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